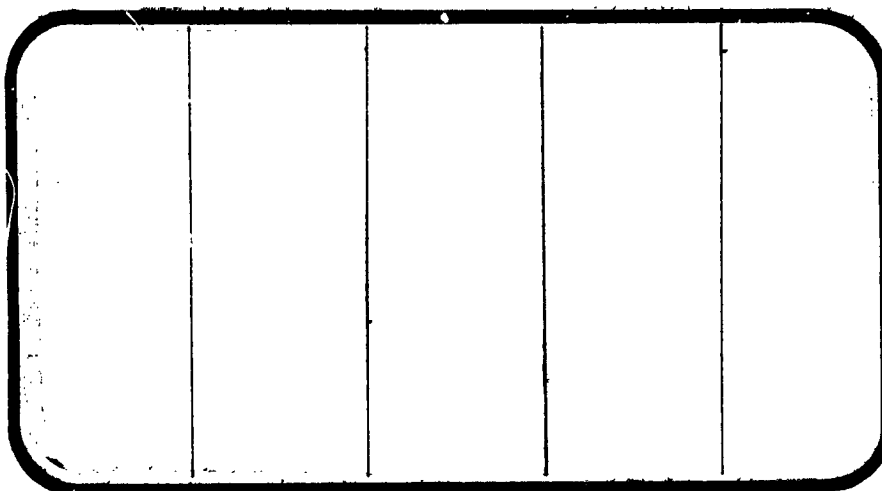




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

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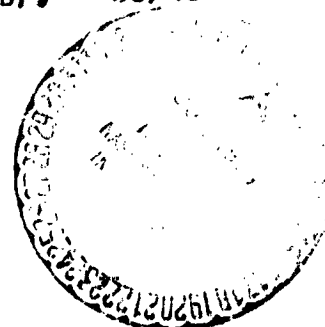


(NASA-CR-141523) AIRLOADS INVESTIGATION OF
AN 0.030 SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 140A/B LAUNCH CONFIGURATION (MODEL
47-OTS) IN THE ARC 9 BY 7 FOOT UNITARY PLAN
WIND TUNNEL FOR MACH 1.55 AND 2.2 (1A14B).

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22983

63/15



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



**CHRYSLER
CORPORATION**

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DMS-DR-2129
NASA CR-141,523
VOLUME 2 OF 2

AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL
OF THE SPACE SHUTTLE VEHICLE
140A/B LAUNCH CONFIGURATION (MODEL 47-OTS)
IN THE ARC 9- BY 7-FOOT UNITARY PLAN WIND TUNNEL
FOR MACH 1.55 AND 2.2 (1A14B)

By -

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Prepared under NASA Contract Number NAS9-13247

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for

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Houston, Texas

WIND TUNNEL SPECIFICS:

Test Number: ARC 97-716
NASA Series Number: IA14B
Model Number: 47-OTS
Test Dates: 17 through 19 September 1973

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL
OF THE SPACE SHUTTLE VEHICLE
140A/B LAUNCH CONFIGURATION (MODEL 47-OTS)
IN THE ARC 9- BY 7-FOOT UNITARY PLAN WIND TUNNEL
FOR MACH 1.55 AND 2.2 (IA14B)

VOLUME 2

By R. L. Gillins, Rockwell International Space Division

ABSTRACT

This report presents results of tests conducted on an 0.030-scale launch configuration model of the Space Shuttle Vehicle 140A/B in the NASA/ARC 9- by 7-Foot Unitary Plan Wind Tunnel. Aerodynamic loads data were obtained at Mach numbers of 1.55 and 2.2.

Surface pressure distributions were obtained simultaneously with six-component stability and control force data on the complete launch configuration. The configuration consisted of the orbiter, an external tank, two solid rocket boosters, and associated intercomponent attach hardware. -- Angles of attack and sideslip from -8 degrees to +8 degrees were investigated. The tests, designated IA14B, were conducted from 17 September 1973 through 19 September 1973.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	3
INDEX OF DATA FIGURES	4
INTRODUCTION	8
NOMENCLATURE	9
CONFIGURATIONS INVESTIGATED	14
INSTRUMENTATION DESCRIPTION	16
TEST FACILITY DESCRIPTION	17
DATA REDUCTION	18
REFERENCES	21
TABLES	
I. TEST CONDITIONS	24
II. DATA SET/RUN NUMBER COLLATION SUMMARY	25
III. MODEL DIMENSIONAL DATA	27
IV. ORBITER FUSELAGE PRESSURE ORIFICE LOCATIONS	40
V. ORBITER WING PRESSURE ORIFICE LOCATIONS	41
VI. ORBITER VERTICAL TAIL PRESSURE ORIFICE LOCATIONS	42
VII. ORBITER BASE, BODYFLAP, AND OMS NOZZLE PRESSURE ORIFICE LOCATIONS	43
VIII. EXTERNAL TANK PRESSURE ORIFICE LOCATIONS	44
IX. LEFT SRM PRESSURE ORIFICE LOCATIONS	45
X. ORBITER ATTACH POINT PRESSURE ORIFICE LOCATIONS	46

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TABLE OF CONTENTS (Concluded)

	Page
XI. EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATIONS	47
FIGURES	
MODEL	50
TABULATED PRESSURE DATA	68

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis systems.	
a.	Stability and body axis systems	50
b.	Orifice location nomenclature diagram	51
2.	Model sketches.	
a.	Integrated Vehicle - 2 Balances, no attach structure	52
b.	Integrated Vehicle - 2 Balances, with attach structure	53
c.	Installation side view	54
d.	Attach hardware, configuration AT ₁₁	55
e.	External tank protuberances	56
f.	SSV orbiter configuration 140A/B	57
g.	Orbiter nomenclature	58
h.	Canopy, C ₉ , and body, B ₂₆ , lines drawing VL70-000193 and VL70-000140 A/B	59
i.	M ₇ - Od od	60
j.	Body flap, F ₈ , lines drawing VL70-000140A/B	61
k.	Wing, W ₁₁₆ , lines drawing no. VL70-000200	62
l.	Elevon, E ₂₆ , lines drawing VL70-000200, VL70-000140A/B	63
m.	Vertical tail, V ₈ , and rudder, R ₅ , lines drawing VL70-000146A	64
n.	Rudder, R ₅ , lines drawing no. VL70-000095	65
3.	Model photographs.	
a.	Front view of model installed in tunnel	66
b.	Rear view of model installed in tunnel	67

INDEX OF DATA FIGURES (FORCE)

<u>FIGURE</u>	<u>TITLE</u>	<u>CONDITIONS VARYING</u>	<u>PLOTTED COEFFICIENTS SCHEDULE</u>	<u>PAGES</u>
4	LVAP (01 T12 S12 N25 AT11), MACH = 1.55 (TANK + SRM BALANCE)	ALPHA	A	1-7
5	LVAP (01 T12 S12 N25 AT11), MACH = 2.2 (TANK + SRM BALANCE)	ALPHA	A	8-14
6	LV (01 T12 S12 N25), MACH = 1.55 (TANK + SRM BALANCE)	ALPHA	A	15-21
7	LV (01 T12 S12 N25), MACH = 2.2 (TANK + SRM BALANCE)	ALPHA	A	22-28
8	LVAP (01 T12 S12 N25 AT11), MACH = 1.55 (ORBITER BALANCE)	ALPHA	A	29-35
9	LVAP (01 T12 S12 N25 AT11), MACH = 2.2 (ORBITER BALANCE)	ALPHA	A	36-42
10	LV (01 T12 S12 N25), MACH = 1.55 (ORBITER BALANCE)	ALPHA	A	43-49
11	LV (01 T12 S12 N25), MACH = 2.2 (ORBITER BALANCE)	ALPHA	A	50-56

PLOTTED COEFFICIENTS SCHEDULE:

A) CN, CLM, CA, CAF, CY, CYN, CBL versus BETA

INDEX OF DATA FIGURES (PRESSURE)

<u>TITLE</u>	<u>CONDITIONS VARYING</u>	<u>PLOTTED COEFFICIENTS SCHEDULE</u>	<u>PAGES</u>
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES	PHI, ALPHAO, BETAO	A	1-48
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES	PHI, ALPHAT, BETAT	B	49-96
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES	PHI, ALPHAT, BETAT	C	97-128
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES	ALPHAO, BETAO, Y/BW	D	129-192
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES	ALPHAO, BETAO, Z/BV	E	193-240
ORBITER BASE PRESSURES	TAP NO., ALPHAO	F	241-248
OMS NOZZLE PRESSURES	PHI, X/LNM, ALPHAO	F	249-264
SRM BOOSTER BASE PRESSURES	PHI, ALPHAT, X/LS	G	265-288
EXTERNAL TANK BASE PRESSURES	TAP NO., ALPHAT	G	289-304
ORBITER ATTACH POINTS PRESSURE	Y/BW, ALPHAO, X/LB	F	305-328
EXTERNAL TANK ATTACH POINTS PRESSURES	PHI, ALPHAT, X/LT	G	329-400
EXTERNAL TANK BASE RAKE PRESSURES	TAP NO., ALPHAT	G	401-406

PLOTTED COEFFICIENTS SCHEDULE:

A) CP versus X/LB	E) CP versus X/CV
B) CP versus X/LT	F) CP versus BETAO
C) CP versus X/LS	G) CP versus BETAT
D) CP versus X/CW	

INDEX OF DATA FIGURES (PRESSURE) - CONTINUED

The plotted pressure data, presented as a function of angle of sideslip, angle of attack, and geometric parameters, are representative of the tabulated data presented in Volume 2. A summary of the pressure data plotted is given below.

<u>DATASET PLOTTED</u>	<u>COMPONENT</u>	<u>MACH</u>	<u>PHI SCHED.</u>	<u>BETA SCHED.</u>	<u>ALPHA SCHED.</u>	<u>GEOMETRIC PARAMETER SCHEDULES</u>
RB3B12-	ORB. FUSELAGE	2.2	(A)	(A)	(A)	
RB3B13	ORB. FUSELAGE	1.55	(A)	(A)	(A)	
RB3T12	EXTERNAL TANK	2.2	(B)	(A)	(A)	
RB3T13	EXTERNAL TANK	1.55	(B)	(A)	(A)	
RB3S12	SRM BOOSTER	2.2	(C)	(A)	(A)	
RB3S13	SRM BOOSTER	1.55	(C)	(A)	(A)	
RB3U12	UPPER WING SURF.	2.2	-	(A)	(A)	Y/BW (A)
RB3L12	LOWER WING SURF.					
RB3U13	UPPER WING SURF.	1.55	-	(A)	(A)	Y/BW (A)
RB3L13	LOWER WING SURF.					
RB3V12	VERT. TAIL LT. SURF.	2.2	-	(A)	(A)	Z/BV (A)
RB3R12	VERT. TAIL RT. SURF.					
RB3V13	VERT. TAIL LT. SURF.	1.55	-	(A)	(A)	Z/BV (A)
RB3R13	VERT. TAIL RT. SURF.					
RB3C12	ORBITER BASE	2.2	(D)	(A)	(A)	TAP NO. (A)
RB3C13	ORBITER BASE	1.55	(D)	(A)	(A)	TAP NO. (A)
RB3E12	OMS NOZZLE	2.2	(E)	(A)	(A)	X/LNM (A)
RB3E13	OMS NOZZLE	1.55	(E)	(A)	(A)	X/LNM (A)
RB3X12	SRM BASE	2.2	(C)	(B)	(B)	X/LS (A)
RB3X14	SRM BASE	2.2	(C)	(B)	(B)	X/LS (A)
RB2Y12	E. T. BASE	2.2	(D)	(A)	(A)	TAP NO. (B)
RB3Y13	E. T. BASE	1.55	(D)	(A)	(A)	TAP NO. (B)
RB3112	ORB. ATTACH POINTS	2.2	-	(A)	(A)	SEE
RB3113	ORB. ATTACH POINTS	1.55	-	(A)	(A)	PLOTS

INDEX OF DATA FIGURES (PRESSURE) - CONCLUDED

<u>DATASET PLOTTED</u>	<u>COMPONENT</u>	<u>MACH</u>	<u>PHI SCHED.</u>	<u>BETA SCHED.</u>	<u>ALPHA SCHED.</u>	<u>GEOMETRIC PARAMETER SCHEDULES</u>
RB3212	E. T. ATTACH POINTS	2.2	SEE	(B)	(B)	SEE
RB3214	E. T. ATTACH POINTS	2.2	PLOTS	(B)	(B)	PLOTS
RB3312	E. T. BASE RAKE	2.2	(F)	(B)	(B)	TAP NO. (C)
RB3314	E. T. BASE RAKE	2.2	(F)	(B)	(B)	TAP NO. (C)

PARAMETER SCHEDULES

ALPHA

SCHEDULES (A) -8, -4, 0, 8
(B) -8, -4, 0

BETA

(A) -8, -4, 0, 8
(B) -8, -4, 0, 4, 8

PHI

(A) 0, 20, 40, 55, 70, 90, 120, 135, 150, 165, 180
(B) 0, 30, 60, 90, 120, 135, 150, 165, 180, 270
(C) 0, 45, 90, 135, 180, 225, 270, 315
(D) 0
(E) 135, 180, 225
(F) 180

Y/BW

(A) .299, .364, .427, .534, .673, .780, .887

Z/BV

(A) .158, .316, .600, .840, .925

X/LNM

(A) .2, .4

X/LS

(A) .948, .979, .993

TAP NO.

(A) 1, 2, 3, 4, 5
(B) 501, 502, 801, 802, 803, 804
(C) 790, 789, 788, 787

INTRODUCTION

The 0.030-Scale Aero Loads Space Shuttle model was tested in the ARC Unitary Plan Wind Tunnel as follows:

IA14A	4 thru 13 Sept. 1973
IA14B	17 thru 19 Sept. 1973
OA22A	13 thru 14 Sept. 1973
OA22B	19 thru 20 Sept. 1973

The testing was conducted in the 11-foot and the 9- by 7-foot tunnels of the ARC Unitary Plan Wind Tunnels. The IA14A/B tests were for the launch configurations at Mach numbers from 0.6 thru 2.2. The OA22A/B tests were for the orbiter alone configurations at Mach numbers from 0.6 thru 2.2. The effects of control surface deflections were also investigated in tests OA22A/B.

This report for test IA14B consists of two volumes. The first volume contains all force data and the plotted pressure data. The second volume contains the tabulated pressure data.

Volume No.	Contents	Page
1	IA14B force data IA14B plotted pressure data	
2	IA14B tabulated pressure data	
	(a) Orbiter fuselage (B)	1-84
	(b) Orbiter base (C)	85-108
	(c) OMS nozzle (E)	109-136
	(d) Body flap (F)	137-160
	(e) OMS pod outside (M)	161-184
	(f) Lower wing surface (L)	185-288
	(g) Upper wing surface (U)	289-392
	(h) Left vertical tail surface (V)	393-427
	(i) Right vertical tail surface (R)	429-464
	(j) SRM booster (S)	465-528
	(k) External tank (T)	529-596
	(l) SRM nozzle (X)	597-608
	(m) External tank base & SRM booster base (Y)	609-632
	(n) Orbiter attach points (1)	633-700
	(o) External tank attach points (2)	701-730
	(p) External tank base rake (3)	731-738

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$, N/m ² , psf
Re/L	Re/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m ² , ft ²
b	BREF	reference span; m, ft
C.G.		center of gravity
\bar{c}		reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
t	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$A()$		model base area, subscript is base orifice number and identifies location
C_{A_b}	CAB	model base axial-force coefficient
$C_p()$		model static pressure coefficient, subscript is orifice number, $[P() - P_\infty]/q$
C_{AU}	CA	axial-force coefficient, unadjusted
C_{AF}	CAF	forebody axial-force coefficient, C_{AU} adjusted for base terms
ET		external tank
IV		integrated vehicle, consists of orbiter, external tank, and two solid rocket motors
l_{REF}	LREF	reference length, inches
MRC		moment reference center
OMS		orbital maneuvering system
δ_e	ELEVON	elevon, surface deflection angle, positive deflection trailing edge down, degrees
δ_f	BDFLAP	orbiter body flap deflection angle, positive deflection angle is trailing edge down, degrees
δ_R	RUDDER	rudder, surface deflection angle, positive deflection trailing edge to the left degrees
δ_{SB}	SPDBRK	speed brake deflection angle, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{SB} = (\delta_{RL} + \delta_{RR})/2$, positive deflection, degrees
i_0	ORBINC	incidence angle between the orbiter and external tank, $i_0 = \alpha_0 - \alpha_T$, degrees
β_T	BETAT	angle of sideslip of external tank

NOMENCLATURE (Continued)

α_T	ALPHAT	angle of attack of external tank
l_B	LB	length of orbiter body, in
l_T	LT	length of external tank, in
l_S	LS	length of SRM booster, in
l_{NM}	LNМ	length of OMS nozzle, positive direction forward of exit plane, in
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane, in
$b/2$	BW	wing semi-span, in
b_v	BV	vertical tail span, in
x	X	distance from component nose, in
y	Y	lateral distance from centerline, in
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord), in
c_w	CW	local wing chord, in
c_v	CV	local vertical tail chord, in
x/l_B	X/LB	longitudinal position/orbiter body length
x/l_T	X/LT	longitudinal position/external tank length
x/l_S	X/LS	longitudinal position/booster length
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length
x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length
x/c_w	X/CW	local chordwise position/local wing chord length

NOMENCLATURE (Concluded)

x/c_v	X/CV	local chordwise position/local vertical tail chord length
η	Y/BW	local spanwise position/wing semi-span
η_v	Z/BV	local spanwise position/vertical tail span
x_{cp}/l	XCP/L	center of pressure distance from MRC, expressed as a fraction of body length
β_0	BETA0	angle of sideslip of orbiter
α_0	ALPHA0	angle of attack of orbiter

CONFIGURATIONS INVESTIGATED

The 0.030-scale Aero Loads Model, 47-OTS, was configured after the Shuttle Vehicle MCR 0200 Baseline R1, as defined in drawing number VL72-000088B. The orbiter was a combination of the VL70-000140A orbiter and a VL70-000140B wing and midbody, from which the 140A/B designation was derived. The basic launch configuration, designated O₁ T₁₂ S₁₂ N₂₅, consisted of the orbiter, an external tank with simulated fuel and vent lines, and two solid rocket boosters.

Two launch configurations were tested. Both were mounted on a dual balance and sting arrangement illustrated in figure 2c. One was the basic configuration mounted on a dual balance and sting arrangement illustrated in figure 2a. The second configuration contained simulated attach hardware designated AT₁₁, which was attached to the orbiter but not to the external tank, illustrated in figures 2b and 2d. The SRB-to-ET attach hardware was simulated at the forward attach location but not at the aft attach location. Model and component general arrangements are shown in figures 2d through 2n.

Component	Description
O ₁	140A/B orbiter, less the main propulsion system nozzles
T ₁₂	324-inch diameter external tank with ogive nose and external fuel and vent lines
S ₁₂	143.3-inch diameter solid rocket boosters
N ₂₅	Nozzles for S ₁₂ boosters
AT ₁₁	Orbiter-to-ET attach hardware, fixed to orbiter only

LV $O_1 T_{12} S_{12} N_{25}$

LVAP $O_1 T_{12} S_{12} N_{25} AT_{11}$...

The orbiter, O_1 , consisted of the following components:

$B_{26} C_9 F_8 M_7 N_{28} V_8 R_5 W_{116} E_{26}$.

B_{26} Double delta wing fuselage, 140A/B

C_9 Canopy, 140A

F_8 Body flap, 140A

M_7 OMS pods, 140A

N_{28} OMS nozzles, 140A

V_8 Vertical tail, 140A

R_5 Rudder, 140A

W_{116} Double delta wing, 140B

E_{26} Elevons, 140B

Parametric investigations were limited to angles of attack and sideslip with all orbiter control surfaces at 0° deflection.

INSTRUMENTATION DESCRIPTION

The left side of the orbiter and the external tank, and the left hand SRB were extensively instrumented with pressure orifices for measurement of surface static pressure distributions. Additionally, there were clusters of orifices around inter-component attach structure locations on the right hand side of the orbiter and external tank. The orbiter contained 471 operational orifices, of which 83 were clustered around attach structure. The external tank contained 270 operational orifices, of which 127 were clustered around attach structure. The SRB contained 124 operational orifices. A two-tube total pressure rake was installed in the opening between the orbiter and external tank. Tables and sketches defining orifice locations are included in this report. All model pressures were measured by model mounted Scanivalve, Inc., S-type scanivalve modules - twelve in the orbiter, seven in the external tank, and five in the SRB.

Force instrumentation consisted of a six-component internal force balance in both the orbiter and external tank for the LV and LVAP configurations.

TEST FACILITY DESCRIPTION

The tests were conducted in the Ames 9- by 7-Foot Supersonic Wind Tunnel. This tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Data were reduced to coefficient form about body axes using the following reference constants:

$S_{REF} = 2.421 \text{ ft}^2$ reference area for force and moment coefficients

$l_{REF} = 38.709 \text{ in}$ reference length for moment coefficients

$A_1 = 0.07670 \text{ ft}^2$ Orbiter sting cavity

$A_2 = 0.21340 \text{ ft}^2$ Orbiter heat shield base

$A_3 = 0.08560 \text{ ft}^2$ Orbiter OMS base (2)

$A_4 = (\text{see table below})$ Orbiter speed brake base

$A_{501} = 0.07266 \text{ ft}^2$ Tank sting cavity

$A_{502} = 0.44264 \text{ ft}^2$ Tank base

$A_{801} = 0.19600 \text{ ft}^2$ SRM nozzle base (2)

$A_{802} = 0.16590 \text{ ft}^2$ SRM skirt base (2)

$\delta_{SB} = 0 \text{ deg}$	$A_4 = 0 \text{ ft}^2$
14.92	0.02327
24.92	0.03866
34.92	0.05370
54.92	0.08252
84.92	0.12083

$X_{MRP} = 0 \text{ in}$

$Y_{MRP} = 0 \text{ in}$

$Z_{MRP} = 9.999 \text{ in}$

The incidence angle between the orbiter and the external tank is equal to zero for angle of attack and angle of sideslip. Therefore, the angle of attack, ALPHA, used in the force plots is equal to ALPHA0. Also the angle of sideslip, BETA, used in the force plots is equal to BETA0.

The force and moment data recorded by the orbiter and external tank balances for configurations LV and LVAP are identified as RB30XX and RB31XX datasets, respectively.

The pressure data were recorded for each component. The fourth character in each dataset identifier (i.e., RB3BXX, B for fuselage) represents the individual component. The following list indicates the symbol for each component.

SYMBOL	COMPONENT
B	Orbiter fuselage
C	Orbiter base
E	OMS nozzle
F	Body flap
M	OMS pod outside
L	Lower wing surface
U	Upper wing surface
R	Right vertical tail surface
V	Left vertical tail surface
S	SRM booster
T	External tank

SYMBOL	COMPONENT
X	SRM nozzle
Y	External tank base & SRM booster base
1	Orbiter attach points
2	External tank attach points
3	External tank base rake

REFERENCES

1. Orbiter - Lines and Configuration Control Drawings
2. VL70-000140A, Orbiter Configuration Control Drawing MCR 0200 Baseline
3. VL70-000143A, Lines Control, Vehicle 4 Forward Body - Cabin - Canopy MCR 0200 Baseline
4. VL70-000200, Lines Control, Midbody - Wing - Boot Fairing MCR 200 R3 dated 7-2-73
5. VL70-000145, Lines Control - Aft Body - OMS/RCS Pods, MCR 0200 - R1 Baseline
6. VL70-000146A, Lines Control (Vehicle 4) Vertical Tail MCR 0200 Baseline
7. External Oxygen Hydrogen Tank (EOHT) - Lines and Configuration Control Drawings
8. VL78-000041B, External Tank - Configuration Control MCR 0200 Baseline R2
9. VL78-000024A, Structural Assy - External Tank MCR 0200 R2
10. VL78-000031A, Thermal Protection - External Tank, MCR 0200 Baseline
11. Solid Rocket Boosters (SRB) - Lines and Configuration Control Drawings
12. VL77-000036A, SRB Configuration Control MCR 0200 R1
13. VL77-000041, SRB Booster Assy, MCR 0200 R1
14. Integrated Vehicle - Lines and Configuration Control Drawings
15. VL72-000088A, Shuttle Configuration MCR 0200 Baseline R1
16. VL72-000089, SRM-ET-Orbiter Interface Disconnects MCR 0200 Baseline
17. VL72-000075, External Tank to SRB Attach Interface MCR 0074 Baseline
18. Aero Loads Model 47-OTS - Model Fabrication, Assembly and Installation Drawings

19. SS-A00119, Orbiter Assy - .030 Scale Pressure/Loads Model (140A/B Lines)
20. SS-A00120, Assy & Details - EOHT - .030 Scale Pressure/Loads Model (140A Lines)
21. SS-A00121, Orbiter/EOHT Attachments .030 Scale Pressure/Loads Model (140A Lines)
22. SS-A00122, Assy & Details - SRM - .030 Scale Pressure/Loads Model (140A Lines)
23. SS-A00123, Assy & Details - Forebody - .030 Scale Pressure/Loads Model (140A Lines)
24. SS-A00124, Assy & Details - Aft Fuselage - .030 Scale Pressure/Loads Model (140A Lines)
25. SS-A00125, Assy & Details - Wing Splice Plate & Cuff - .030 Scale Pressure/Loads Model (140A Lines)
26. SS-A00126, Assy & Details - Vertical Stabilizer - .030 Scale Pressure/Loads Model (140A Lines)
27. SS-A00127, Ames 11-ft x 11-ft Wind Tunnel Installation - .030 Scale Pressure/Loads Model (140A/B Lines)
28. SS-A00128, Ames 9-ft x 7-ft Wind Tunnel Installation - .030 Scale Pressure/Loads Model (140A/B Lines)
29. SS-A00130, Lines Control - Profile VL70-000140A - .030 Scale Pressure/Loads Model (140A/B Lines)
30. W-1104S, Sting - Ames MK II 4" Balance (Male End), Ames MK XX 2.5" Balance
31. W-1105S, Sting - Ames MK II 4" Balance (Male End), RI MK I 2.75" Balance
32. W-1106A, Adapter - Ames MK II, 4" Balance (Male & Female)
33. W-1107A, 13.5° Bent Sting Adapter Ames MK II 4" Balance (Male & Female)

34. (DMS-DR-2084), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Launch Configuration (Model 47-OTS) in the ARC 11-foot Unitary Plan Wind Tunnel for Mach Range 0.6 to 1.4 (IA14A)"
35. (DMS-DR-2130), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Orbiter Configuration (Model 47-0) in the ARC 11-foot Unitary Plan Wind Tunnel for Mach 0.6 and 0.9 (OA22A)"
36. (DMS-DR-2131), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Orbiter Configuration (Model 47-0) in the ARC 9- by 7-foot Unitary Plan Wind Tunnel for Mach 1.55 and 2.2 (OA22B)"

TABLE I.

[illegible]

DATE: 19 Oct 1972

25

TABLE II - CONCLUDED

TEST: TAIRE (PRESSURE)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 19 Sept. 1973

TEST RUN NUMBERS														
DATA SET IDENTIFIER	CONFIGURATION	SCMD.		PARAMETERS/VALUES					NO. OF RUNS	ALPHA (OR ALTERNATE INDEPENDENT VARIABLE)				
		α	β	M	δ_e	δ_R	δ_{SB}	-8		-4	0	4	8	
RB 3 ⁽¹⁾	$\phi 1 + T12 + S12 + N25 + AT11$		B	1.55	0	0	0		205	206	207	208	209	
↓ 12	$\phi 1 + T11$			2.2					200	201	202	203	204	
↓ 13				1.55					212	213	214	215	216	
↓ 14	↓		↓	2.2	↓	↓	↓		217	218	219	220	221	
RB 3 ⁽²⁾	$\phi 1 + T12 + S12 + N25 + AT11$		B	2.2	0	0	0		200	201	202			
↓ 14	↓		B	↓	↓	↓	↓		217	218	219			
							</							

TABLE III . - MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₁

GENERAL DESCRIPTION: Attach structure, same as AT₁₀ except the forward attach struts are rotated to the vertical, and the structure extends from the orbiter but is not attached to the tank.

MODEL SCALE: 0.030

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
FORWARD ATTACH		
Orbiter to Tank		
Location - In.		
X_O	<u>382.000</u>	<u>11.460</u>
X_T	<u>1133.000</u>	<u>33.990</u>
Clearance, tank to strut - In.	<u>16.667</u>	<u>0.500</u>
DRAG LINK ATTACH		
Orbiter to Tank		
Clearance, tank to strut - In.	<u>8.333</u>	<u>0.250</u>
AFT ATTACH		
Orbiter to Tank		
Clearance, Tank to strut - In.	<u>8.333</u>	<u>0.250</u>
Crossover Rod		
Clearance, tank to strut - In.	<u>8.333</u>	<u>0.250</u>

TABLE III. - Continued.

MODEL COMPONENT: BODY - B₂₆GENERAL DESCRIPTION: Orbiter Fuselage Configuration 140 A/BNOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to
accept W₁₁₆.Model Scale = .030DRAWING NUMBER: VL70-000193
VL70-000140A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Body Fwd Sta $X_0 = 238$) - in.	<u>1293.3</u>	<u>38.799</u>
Max. Width (at $X_0 = 1520$) - in.	<u>262.0</u>	<u>7.860</u>
Max. Depth (at $X_0 = 1464$) - in.	<u>250.0</u>	<u>7.500</u>
Finess Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - ft ²		
Max. Cross-Sectional	<u>340.88462</u>	<u>0.30679</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: CANOPY - C₉

GENERAL DESCRIPTION: Configuration 3A

Model Scale = .030

DRAWING NUMBER VL70-000140A
VL70-000143A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0=434.643$ to 670)	<u>235.357</u>	<u>7.06071</u>
Max Width (@ $X_0=513.127$)	<u>152.412</u>	<u>4.57236</u>
Max Depth (@ $X_0=485.0$)	<u>25.000</u>	<u>0.75000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: ELEVON - E₂₆GENERAL DESCRIPTION: Configuration 4NOTE: VL70-000400 data for (1) of (2) sides. Identical to E₂₅ except
airfoil thickness

Model Scale = .030

DRAWING NUMBER: VL70-000200
VL70-000140 B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>223.5814</u>	<u>0.20122</u>
Span (equivalent)	<u>368.34</u>	<u>11.05020</u>
Inb'd equivalent chord	<u>119.623</u>	<u>3.58869</u>
Outb'd equivalent chord	<u>55.1922</u>	<u>1.65577</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line)	<u>851.1502</u>	<u>0.76604</u>

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TABLE III. - Continued.

MODEL COMPONENT: Body Flap - F₈GENERAL DESCRIPTION: Configuration 4Model Scale - .030
DRAWING NUMBERVL70-000140B, VL70-000200

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length in.	<u>84.7</u>	<u>2.541</u>
Max Width in.	<u>262.308</u>	<u>7.86924</u>
Max Depth in.	<u>23.000</u>	<u>0.69000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - ft. ²	<u> </u>	<u> </u>
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>158.85350</u>	<u>0.14297</u>
Wetted	<u> </u>	<u> </u>
Base	<u>41.89642</u>	<u>0.03771</u>

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TABLE III. - Continued.

MODEL COMPONENT: OMS POD - M7

GENERAL DESCRIPTION: Configuration 3A

Model Scale = .030

DRAWING NUMBER VL70-000140A
VL70-000145

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OMS Fwd Sta $X_0=1233.0$) - IN.	<u>327.000</u>	<u>9.810</u>
Max Width (@ $X_0=1450.0$) - IN.	<u>94.5</u>	<u>2.8350</u>
Max Depth (@ $X_0=1493.0$) - IN.	<u>109.000</u>	<u>3.270</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: BSRM NOZZLES - N₂₅GENERAL DESCRIPTION: Configuration 3A BSRM Nozzles

Model Scale = .030

DRAWING NO. VL72-000088A
VL77-000036A

DIMENSIONS	FULL-SCALE	MODEL SCALE	
MACH NO. _____			
DIAMETER DEX ~ IN (One Nozzle)	<u>141.3</u>	<u>4.2390</u>	
DIAMETER DT ~ IN	_____	_____	
DIAMETER DIN ~ IN	_____	_____	
ON ~ DEGREES	_____	_____	
AREA - FT ² (One Nozzle)			
MAX CROSS-SECTIONAL	<u>108.89595</u>	<u>0.09801</u>	
GIMBAL ORIGIN	<u>x_o</u>	<u>y_o</u>	<u>z_o</u>
LEFT NOZZLE ~ IN. F.S.	<u>1825.3</u>	<u>-243</u>	<u>400</u>
RIGHT NOZZLE ~ IN. FS	<u>1825.3</u>	<u>+243</u>	<u>400</u>
NULL POSITION - DEG.	<u>PITCH</u>	<u>YAW</u>	
LEFT NOZZLE	<u>+8</u>	<u>+8</u>	
RIGHT NOZZLE	<u>+8</u>	<u>+8</u>	

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TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N28GENERAL DESCRIPTION: Configuration 3A OAT NozzleModel Scale = 030DRAWING NO. VL70-000140A

DIMENSIONS

FULL-SCALE

MODEL SCALE

MACH NO. _____

DIAMETER DEX ~ IN (One nozzle)

DIAMETER DT ~ IN

DIAMETER DIN ~ IN

ON ~ DEGREES

AREA - Ft^2 (one nozzle)

MAX CROSS-SECTIONAL

GIMBAL ORIGIN

 X_0 Y_0 Z_0

LEFT NOZZLE ~ IN.

1518.0-88.0492.0

RIGHT NOZZLE ~ IN.

1518.0+88.0492.0

NULL POSITION

PITCHYAWLEFT NOZZLE (Null Pitch $15^\circ 49'$; Yaw $12^\circ 17'$ OUTB'D) $\pm 8^\circ$ $13^\circ 17'$ OUTB'D $2^\circ 30'$ INB'DRIGHT NOZZLE (Null Pitch $15^\circ 49'$; Yaw $12^\circ 17'$ OUTB'D) $\pm 8^\circ$ $13^\circ 17'$ OUTB'D $2^\circ 17'$ INB'D

TABLE III. - Continued.

MODEL COMPONENT: RUDDER - R₅GENERAL DESCRIPTION: 2A, 3 and 3A Configuration per Rockwell LinesVL70-000095Model Scale = .030DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - FT ²	<u>106.38</u>	<u>0.09574</u>
Span (equivalent) - IN.	<u>201.0</u>	<u>6.0300</u>
Inb'd equivalent chord	<u>92.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)- FT ³	<u>526.13</u>	<u>0.01420</u>
Product of Area and Mean Chord		

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S₁₂GENERAL DESCRIPTION: Configuration 3A, Data for (1) of (2) sides,
per Rockwell Linea VL77-00036AModel Scale = .030

DRAWING NUMBER

VL72-000092AVL77-000036ADIMENSION:FULL SCALEMODEL

Length (Includes Nozzle) - IN.

1741.052.2300

Max Width (Tank Dia) - IN.

142.34.2690

Max Depth (Aft Shroud) - IN.

192.05.7600

Fineness Ratio

9.067719.06771Area - FT²

Max Cross-Sectional

201.061930.18096

Planform

Wetted

Base

WP of BSRM Centerline (Z_T) - IN.40012.000FS of BSRM Nose (X_T) - IN.2006.000ORIGINAL PAGE IS
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TABLE III. - Continued.

MODEL COMPONENT: EXTERNAL TANK - T₁₂GENERAL DESCRIPTION: External Oxygen Hydrogen TankNOTE: Identical to T11 with external fuel lines addedModel Scale = .030

DRAWING NUMBER

VL78-000031AVL78-000041ADIMENSION:FULL SCALEMODEL SCALELength - IN. (Nose @ X_T = 309)186555.95

Max Width (Dia) - IN.

3249.72

Max Depth

Fineness Ratio

5.756175.75617Area - FT²

Max Cross-Sectional

572.555.5153

Planform

Wetted

Base

WP of Tank Centerline (X_T) - IN.400.0

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V_gGENERAL DESCRIPTION: Configuration 3A

NOTE: Similar to V5 with radius on TE upper corner and LE lower corner
 where vertical meets fuselage.

Model Scale = .030

DRAWING NUMBER:

VL70-000140A
VL70-000146A
DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	<u>413.253</u>	<u>0.40197</u>
Planform		
Span (Theo) In	<u>315.720</u>	<u>9.47160</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.40399</u>	<u>0.40399</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>25.947</u>	<u>25.947</u>
0.25 Element Line	<u>41.130</u>	<u>41.1300</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>8.05500</u>
Tip (Theo) WP	<u>108.470</u>	<u>3.25410</u>
MAC	<u>199.80756</u>	<u>5.99423</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>43.9050</u>
W. P. of .25 MAC	<u>635.522</u>	<u>19.06566</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius (in) - IN.	<u>2.00</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.01185</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

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TABLE III. - Concluded.

MODEL COMPONENT: WING - W₁₁₆GENERAL DESCRIPTION: Configuration 4NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.Model Scale = .030

TEST NO.

DWG. NO. VL70-000140B
VL70-000200DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft^2

Planform

Span (Theo. In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees (at $X_0=1506.623, Y_0=$ Incidence Angle, degrees 105, $Z_0=282.75$)

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2} = 0.425$ Tip $\frac{b}{2} = 1.00$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft^2

Leading Edge Intersects Fus M. L. 0 Sta

Leading Edge Intersects Wing 0 Sta

TABLE IV. - ORBITER FUSELAGE PRESSURE ORIFICE LOCATIONS

ORBITER X_0 IN.			RADIAL LOCATION ϕ DEGREES																		
FULL	MODEL	$X_0/10$	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180
235	7.05	0	6																		9
245	7.35	.008	7					8													18
265	7.95	.023	10	11	12	13	14	15			16			17							27
295	8.85	.047	19	20	21	22	23	24			25			26							36
325	9.75	.070	28	29	30	31	32	33			34			35							45
380	11.40	.112	37	38	39	40	41	42			43			44							
440	13.20	.159																			
450	13.30	.167	47	48	49	50	51	52			53				54				55	46	56
465	13.95	.178													57						
500	15.00	.205	59	60	61	62	63	64			65		66	67			58	68			69
560	16.80	.252	70		71		72	73			74			75				76			77
625	18.75	.301	78		79		80	81			82			83				84			85
725	21.75	.379	85		87		88	89			90			91				92			93
890	26.40	.499	94		95		96	97			98			99				100			101
980	29.40	.576	102		103																
1080	32.40	.655	104		105		106	107			108			109				110			111
1180	35.40	.730	112		113		114	115			116			117							118
1245	37.35	.781	119		120		121	122	123		124	125		126				127			128
1300	39.00	.835	129		130		131	132	133		134	135		136							137
1375	41.25	.882	138		139		140	141	142		143	144		145				146			
1430	42.90	.925	147		148		149	150	151		152	153		154				155			
1480	44.40	.965	156		157		158	159	160		161	162		163				164			
1530	45.90	1.002								165	166										
1530	45.90	1.002								167	168										
1555	46.65	1.021	169		170																
1590	47.70	1.048	171		172																
1590	47.70	1.048	173		174																

a: OMS pod, inside c: Body flap lower surface

b: OMS pod, outside d: Body flap upper surface

X_0 = 1293.3 full scale

X_0 = 38.799 model

data in datasets RB3BXX

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TABLE V. - ORBITER WING PRESSURE ORIFICE LOCATIONS

ORBITER S.P. %		X/C ~ LOCAL WING CHORD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
FILE	MODEL	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U	L	U

- 1 X/C = .14
- 2 X/C = .34
- 3 X/C = .03
- 4 X/C = .045

data in datasets R83UXX (upper) and R83LXX (lower)

TABLE VI. - ORBITER VERTICAL TAIL PRESSURE ORIFICE LOCATIONS

VERTICAL $W_L \sim Z_0$		X/C_V									
FULL	MODEL	ηV	0	.025	.05	.15	.30	.52	.685	.775	.90
550	16.50	.158	RH LE LH 316		324	325	326	327	328	329	
600	18.00	.316	RH LE LH 330	317	318	319	320	321	322	323	
690	20.70	.600	RH LE LH 346	331	332	333	334	335	336	337	338
765	22.95	.840	RH LE LH 362	347	348	349	350	351	352	353	354
792	23.76	.925	RH LE LH 378	363	364	365	366	367	368	369	370
					371	372	373	374	375	376	377
					387	388	389	390	391	392	393
				379	380	381	382	383	384	385	386

data in datasets RB3VXX (left side) and RB3RXX (right side)

TABLE VII. - ORBITER BASE, BODYFLAP, AND OMS NOZZLE PRESSURE ORIFICE LOCATIONS

ORBITER BASE

LOCATION	ORIFICE NUMBER
Orbiter Sting Cavity	1
Orbiter Base (Lower Left Corner)	2
OMS Nozzle Base	3

data in datasets RB3CXX

RUDDER FLARE BASE

RUDDER $\alpha \sim Z_0$		X/C_V
FULL	MODEL	.75
725	18.75	4
625	21.75	5

data in datasets RB3GXX

BODY FLAP

ORBITER $\sim X_0$		$\theta \sim \text{Deg}$	
FULL	MODEL	0	40
1555	46.65	169	170
1590	47.70	Upper 173 174	
1590	47.70	Lower 171 172	

data in datasets RB3FXX

LEFT OMS NOZZLE SURFACE

$X \sim \text{IN. FWD. NOZZLE EXIT}$		$\theta \sim \text{DEG.}$		
FULL	MODEL	135	180	225
10	.30	175	176	177
20	.60		178	

data in datasets RB3EXX

TABLE VIII. - EXTERNAL TANK PRESSURE ORIFICE LOCATIONS

TANK STATION $\sim X_T$			$\theta \sim \text{DEG.}$									
FULL SCALE	MODEL SCALE	X_T / Z_T	0	30	60	90	120	135	150	165	180	270
309	9.27	0	503								506	
324	9.72	.008	504			505	512		513		514	
400	12.00	.049	508	509	510	511	519		520	521	522	
520	15.60	.113	515	516	517	518	527		528	529	530	
640	19.20	.178	523	524	525	526	535		536	537	538	
670	20.10	.194	531	532	533	534	543		544	545	546	
710	21.30	.215	539	540	541	542	551	552	553	554	555	
760	22.80	.242	547	548	549	550	560		561	562	563	
850	25.50	.290	550	557	558	559	568	569	570	571	572	564
950	28.50	.344	565	566	567		576		578	579	580	
1050	31.30	.394	573	574	575		577	586	587	588	589	
1150	34.50	.451	581	582	583	584	585		595	596	597	
1250	37.50	.505	590	591	592	593	594	603	604	605	606	
1350	40.50	.558	598	599	600	601	602		612	613	614	
1500	45.00	.638	607	608	609	610	611	620	621	622	623	
1700	51.00	.746	615	616	617	618	619	628	629	631	632	
1900	57.00	.853	624	625	626	627	628	637	630	631	632	
2040	61.20	.928	633	634	635		636		638	639	640	
TANK BASE STRING CAVITY			501								502	

$\theta_T = 1865 \text{ IN. FULL SCALE}$
 $55.950 \text{ IN. MODEL SCALE}$

data in datasets R83TXX

TABLE IX. LEFT SRM PRESSURE ORIFICE LOCATIONS

SRM STATION ~ X _S			θ ~ DEG.							
FULL SCALE	MODEL SCALE	X _S X _S	0	45	90	135	180	225	270	315
200	6.00	0	805	807	808	809	810	811	812	813
260	7.80	.034	806	815	816	817	818	819	820	821
370	11.10	.098	814	823	824	825	826	827	828	828
400	12.00	.115	822	830	831	832	833	834	835	836
450	13.50	.144	829	838	839	840	841	842	843	844
550	16.50	.201	837				847	848	849	850
700	21.00	.287	845				853			
850	25.50	.373	851				857			
1050	31.50	.488	855				860			
1250	37.50	.603	858				863		864	
1450	43.50	.718	861				867		868	
1650	49.50	.833	865				873	874	875	876
1750	52.50	.890	869	870	871	872	881	882	883	884
1796	53.88	.917	877	878	879	880	889	890	891	892
1835	55.05	.939	885	886	887	888	897	898	899	900
1868	56.04	.958	893	894	895	896		804		
SKIRT BASE			802			803				
NOZZLE BASE			801							
NOZZLE EXTERNAL PRESSURES										
1850	55.50	.948	901	902	903	904	905	906	907	908
1905	57.15	.979	909	910	911	912	913	914	915	916
1928	57.84	.993	917	918	919	920	921	922	923	924

$X_S = 1741 \text{ IN. FULL SCALE}$
 $52.23 \text{ IN. MODEL SCALE}$

data in datasets RB3SXX

TABLE X. ORBITER ATTACH POINT PRESSURE ORIFICE LOCATIONS

	FULL X _o SCALE	347	357	367	377	387	397	407	1252	1262	1272	1282	1292	1302	1312	1322	1332
X _o MODEL		10.41	10.71	11.01	11.31	11.61	11.91	12.21	37.56	37.86	38.16	38.46	38.76	39.06	39.36	39.96	40.26
A _o /A _o		.087	.095	.102	.110	.118	.126	.133	.788	.796	.804	.811	.819	.827	.835	.850	.853
F.S. MODEL Y _o		394	397					412				436	447		468	474	480
.021 10			396	399	403	407	411	415				435	446	457	467	473	479
.043 20			395	398	402	406	410	414				434	445	456	466	472	478
.064 30					401	405	409	413				433	444	455	465	471	477
.085 40												432	443	454	464	470	476
.107 50									1							469	475
.149 79.75 2.09												431	442	453	463		
.170 79.75 2.39											424	430	441	452	462		
.192 89.75 2.69										419	423	429	440	451	461		
.213 99.75 2.99									416	418	422	428					
.234 109.75 3.29										417	421	427	439	450	460		
.254 119.75 3.59											420	426	438	449	459		
.274 129.75 3.89												425	437	448	458		

data in datasets RB31XX

TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATIONS

X _T Full Scale	1103	1093	1083	1073	1063	1053	1043	
X _T Model Scale	33.09	32.79	32.49	32.19	31.89	31.59	31.29	
X _T /l _T	.424	.419	.413	.408	.402	.397	.391	
								Ø DEG.
FWD ATTACH POINT (ORBITER TO E-T)	684	676	668	660				182.84
	685	677	669	661				186.38
	686	678	670	662	655			189.92
	687	679	671	663	656	652		193.46
	688	680			657	653	651	197.0
	689	681	673	665	658	654		200.54
	690	682	674	666	659			204.08
	691	683	675	667				207.62

data in datasets RB32XX

TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATION - Continued

FWD DRAG LINK ATTACH POINT	X_T FULL SCALE	1874	1864	1854	1844	1834	1824	1814	
	X_T MODEL SCALE	56.22	55.92	55.62	55.32	55.02	54.72	54.42	
	X_T/l_T	.839	.834	.828	.823	.818	.812	.807	
									θ DEG.
		719	713	707					222.84
		720	714	708	701				226.38
		721	715	709	702	696			229.92
		722		710	703	697	693		233.46
					704	698	694	692	237.00
						699	695		240.54
		723	718	712	706	700			244.08

data in datasets RB32XX

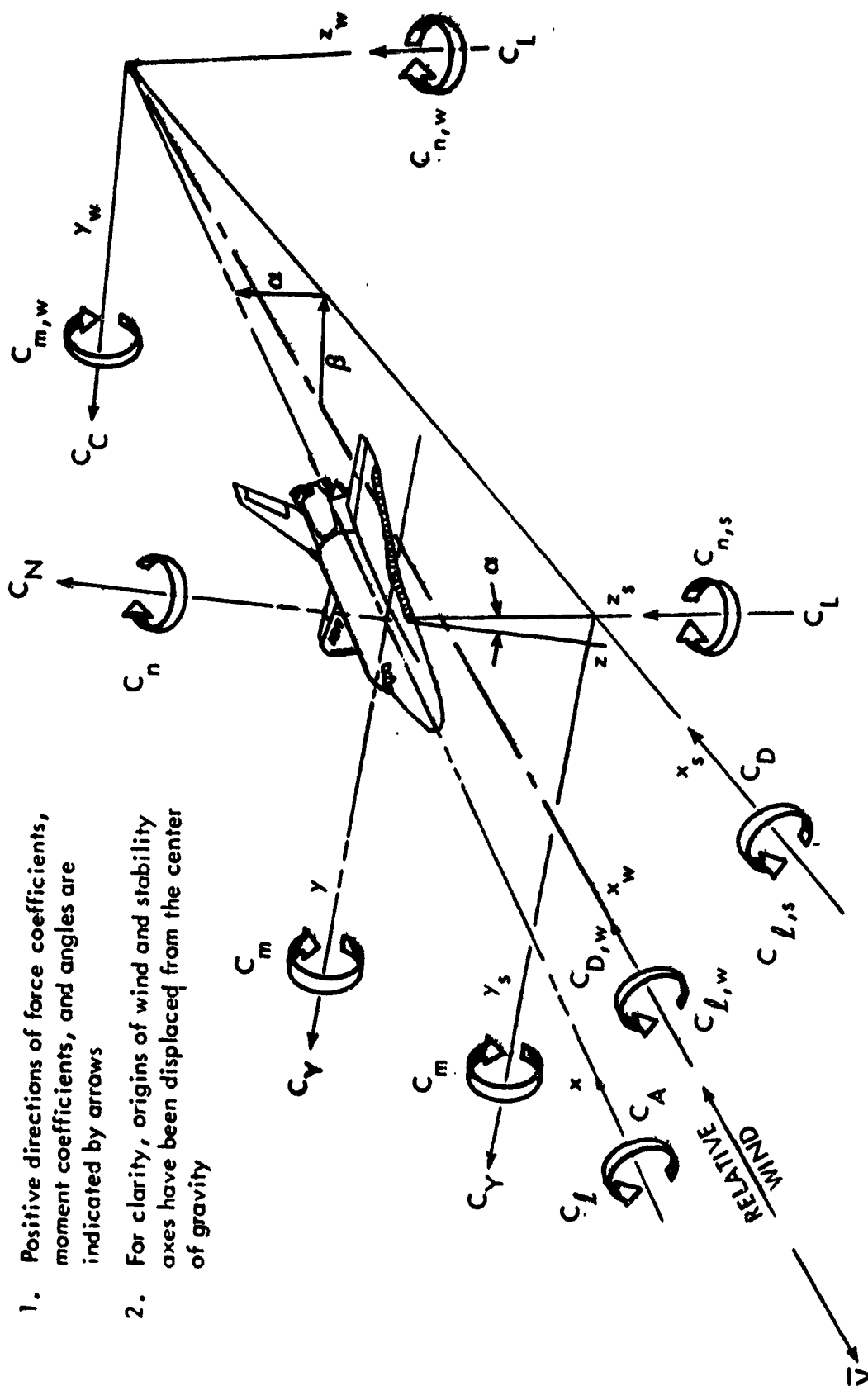
TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATION - Concluded.

AFT UPPER ATTACH	X_T FULL SCALE	2078	2068	2058	2048	2038	2028	2018	
	X_T MODEL SCALE	62.34	62.04	61.74	61.44	61.14	60.84	60.54	
	X_T/l_T	.948	.943	.938	.932	.927	.921	.916	
									$\emptyset \sim \text{DEG.}$
		777	766	754					234.04
		778	767	755	742				237.58
		779	768	756	743	732			241.12
		780	769		744	733	726		244.66
		781	770		745	734	727	724	248.2
					746	735	728		251.74
			771	759	747	736			255.28
		782	772	760					323.51
		783	773	761	748				327.05
		784	774	762	749	737			330.59
		785	775		750	738	729		334.13
		786	776		751	739	730	725	337.67
AFT LOWER ATTACH					752	740	731		341.21
				765	753	741			344.75

data in datasets RB32XX

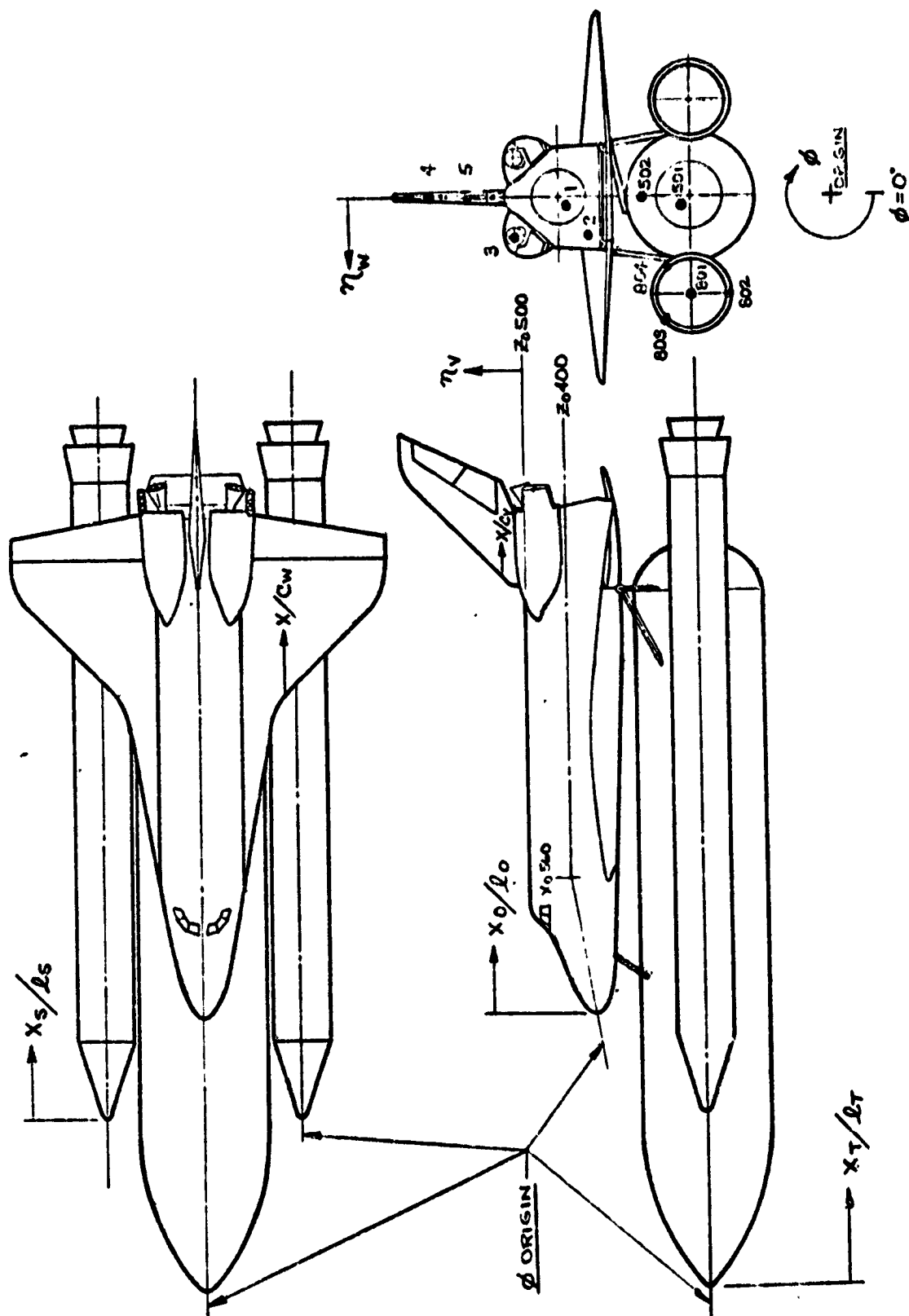
Notes

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Stability and body axis systems.

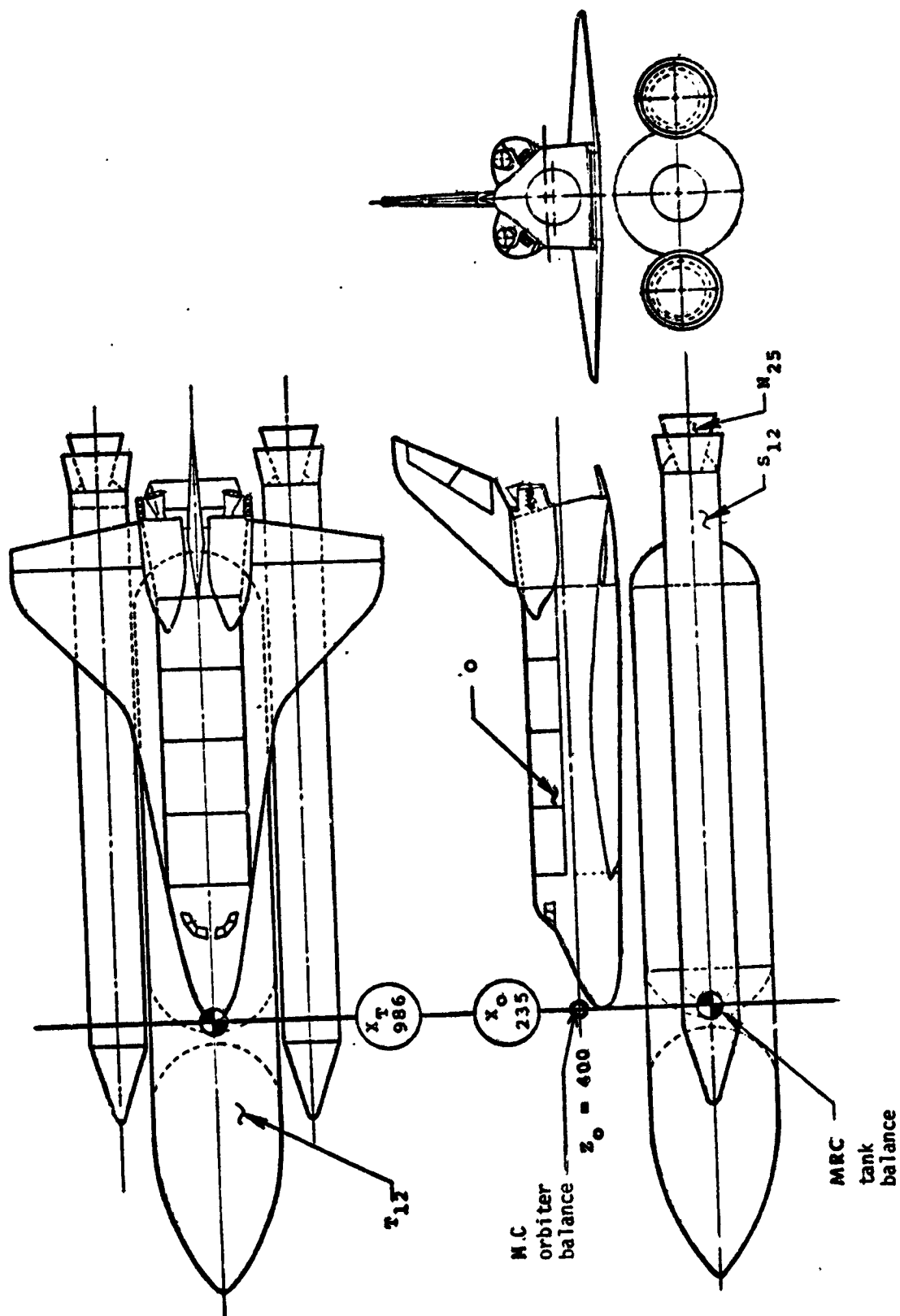
Figure 1. - Axis systems.



b. Orifice location nomenclature diagram

Figure 1. - Concluded

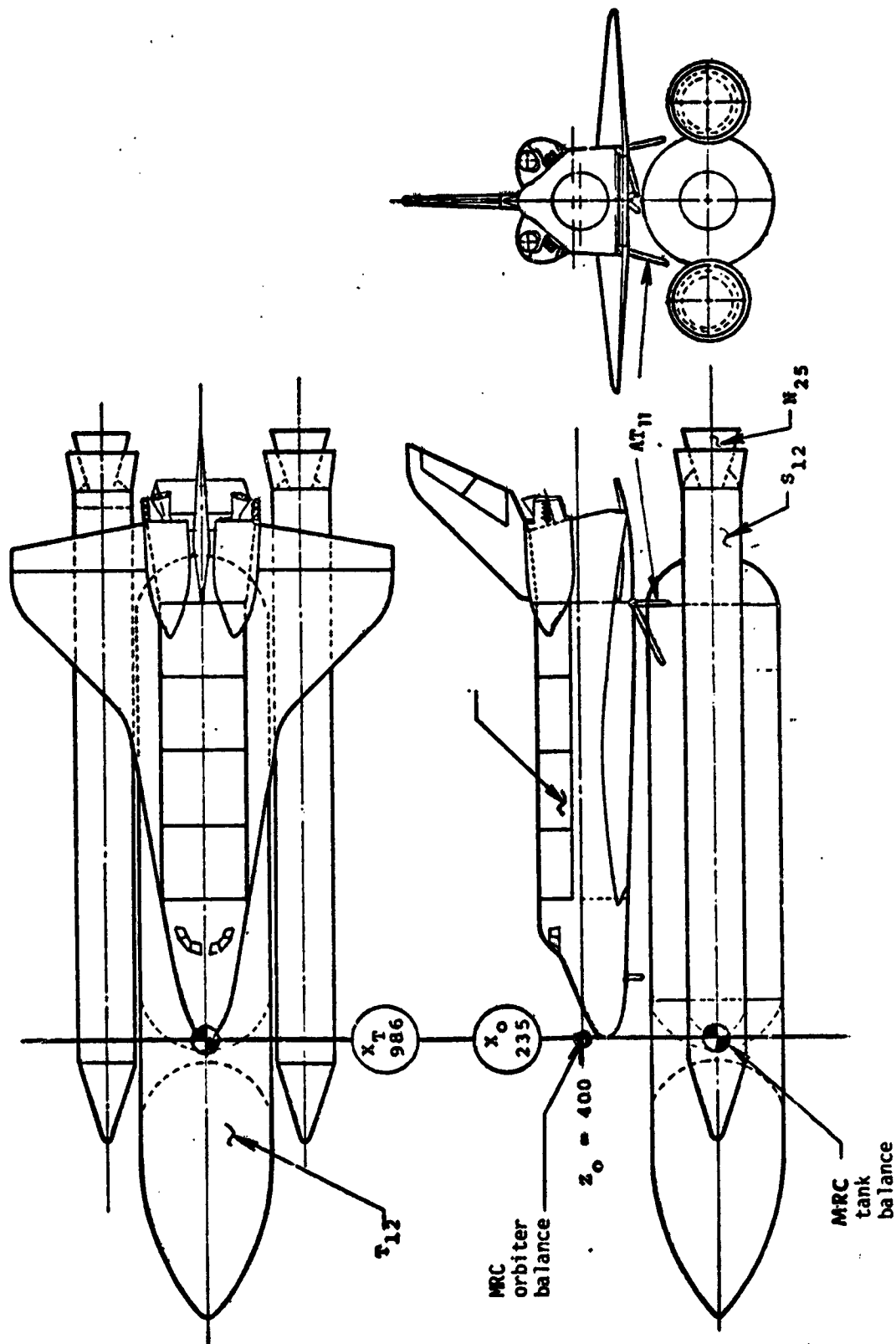
LV



a. Integrated Vehicle - 2 balances, no attach structure

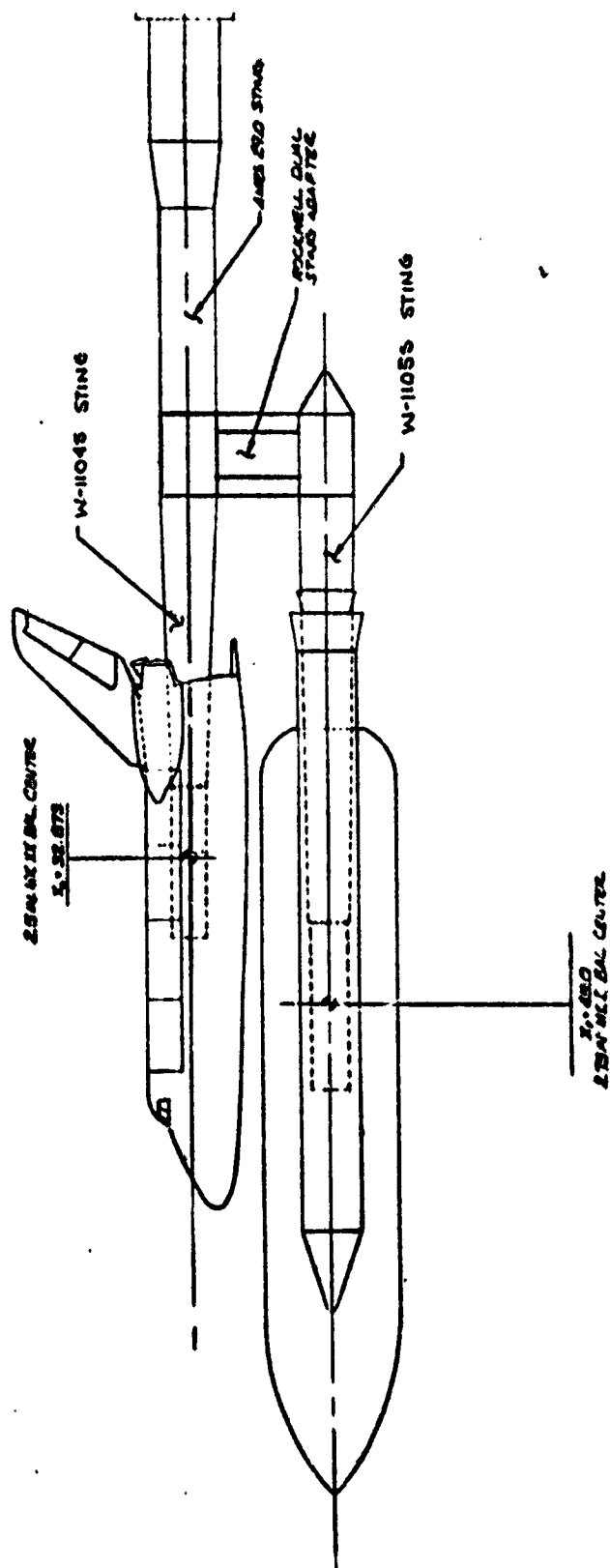
Figure 2. - Model sketches.

LVAP



b. Integrated Vehicle - 2 balances, with attach structure

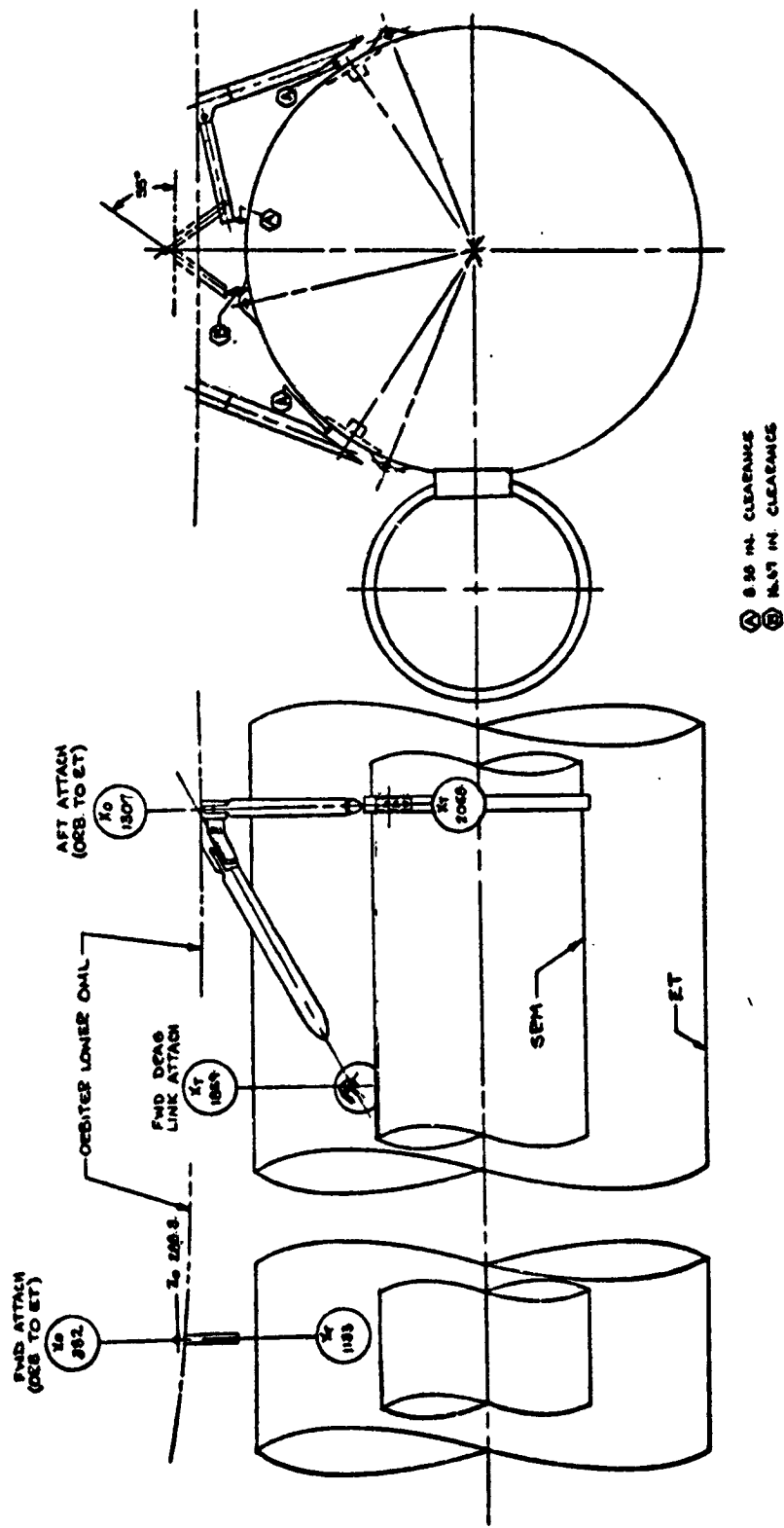
Figure 2. - Continued



DUAL BALANCE CONFIGURATION ~ LV & LYAP

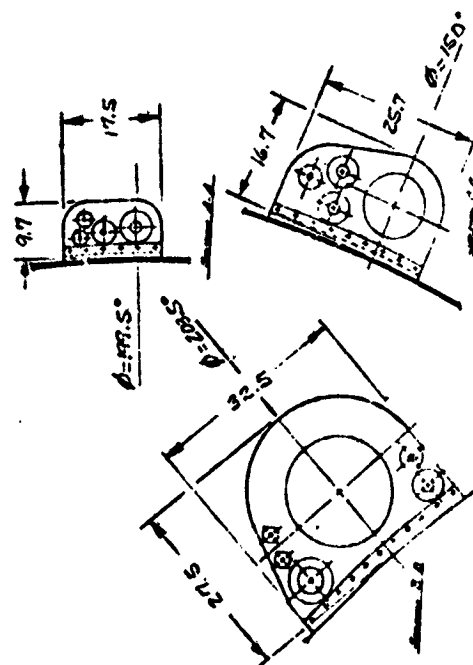
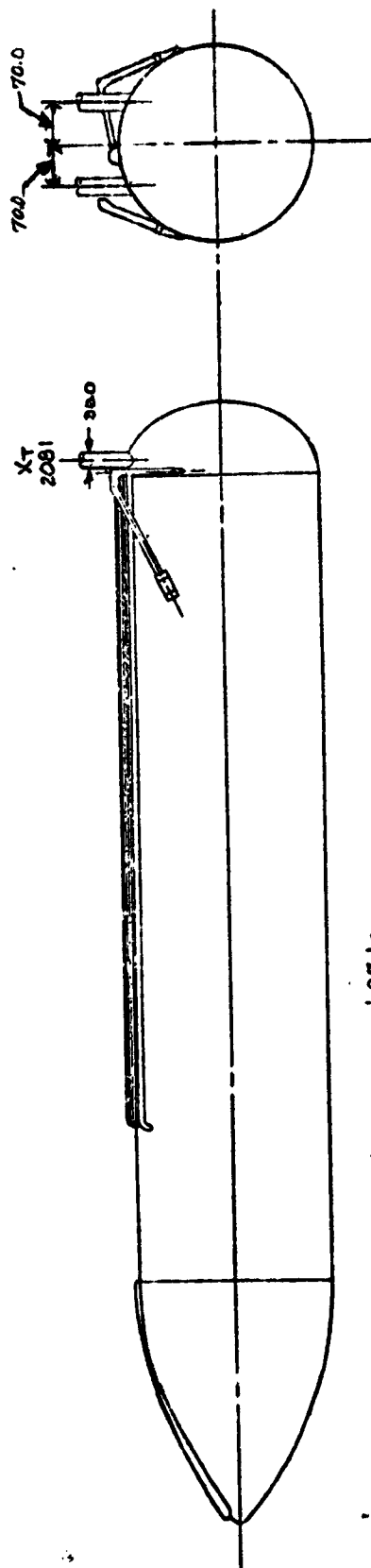
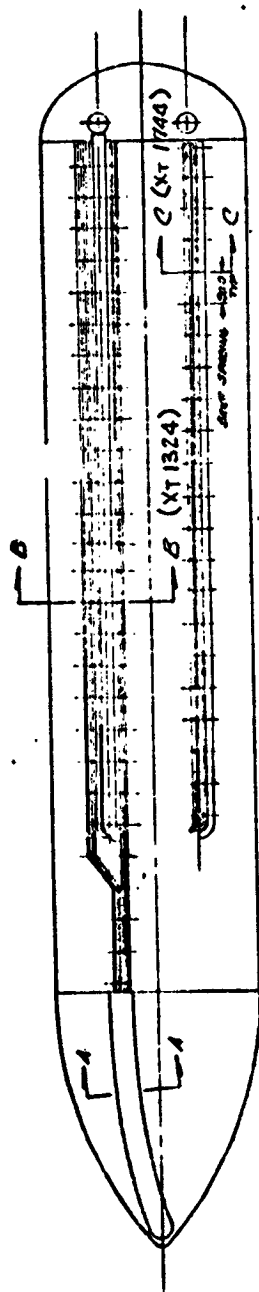
c. Installation side view

Figure 2. - Continued.



d. ATTACH HARDWARE CONFIGURATION - ATII

Figure 2. - Continued.



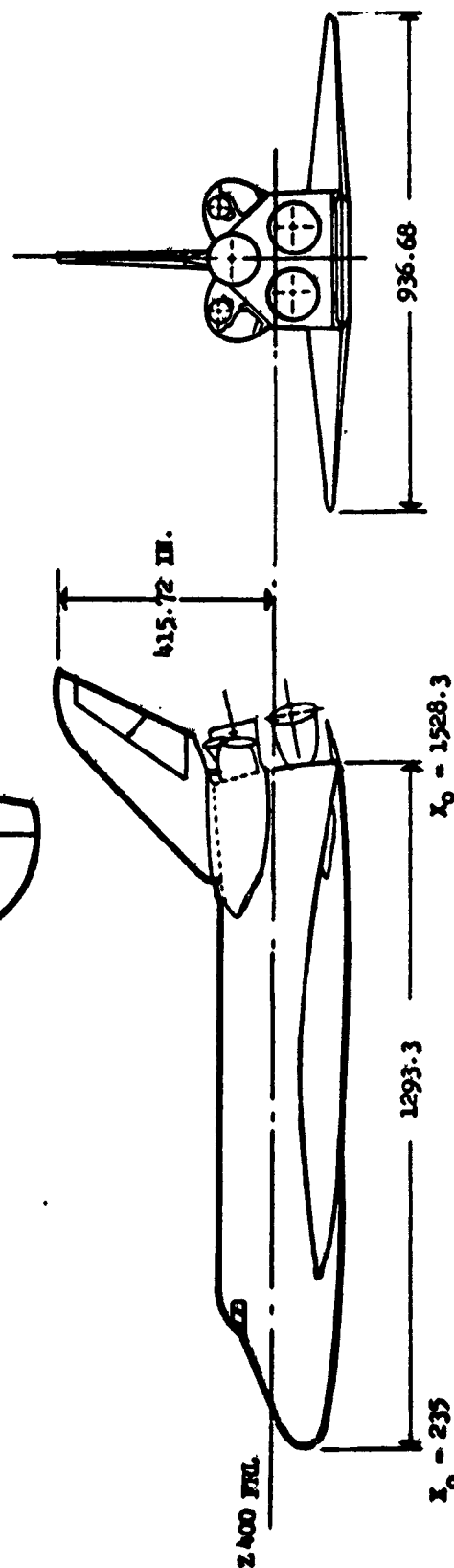
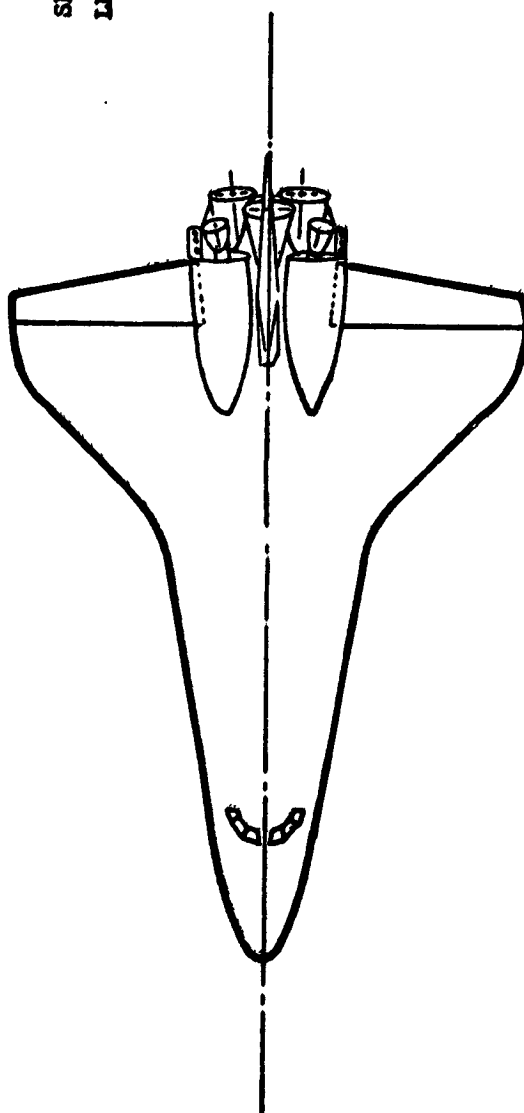
e. External tank protuberances
Figure 2. - Continued.

ORIGINAL PAGE IS
OF POOR QUALITY

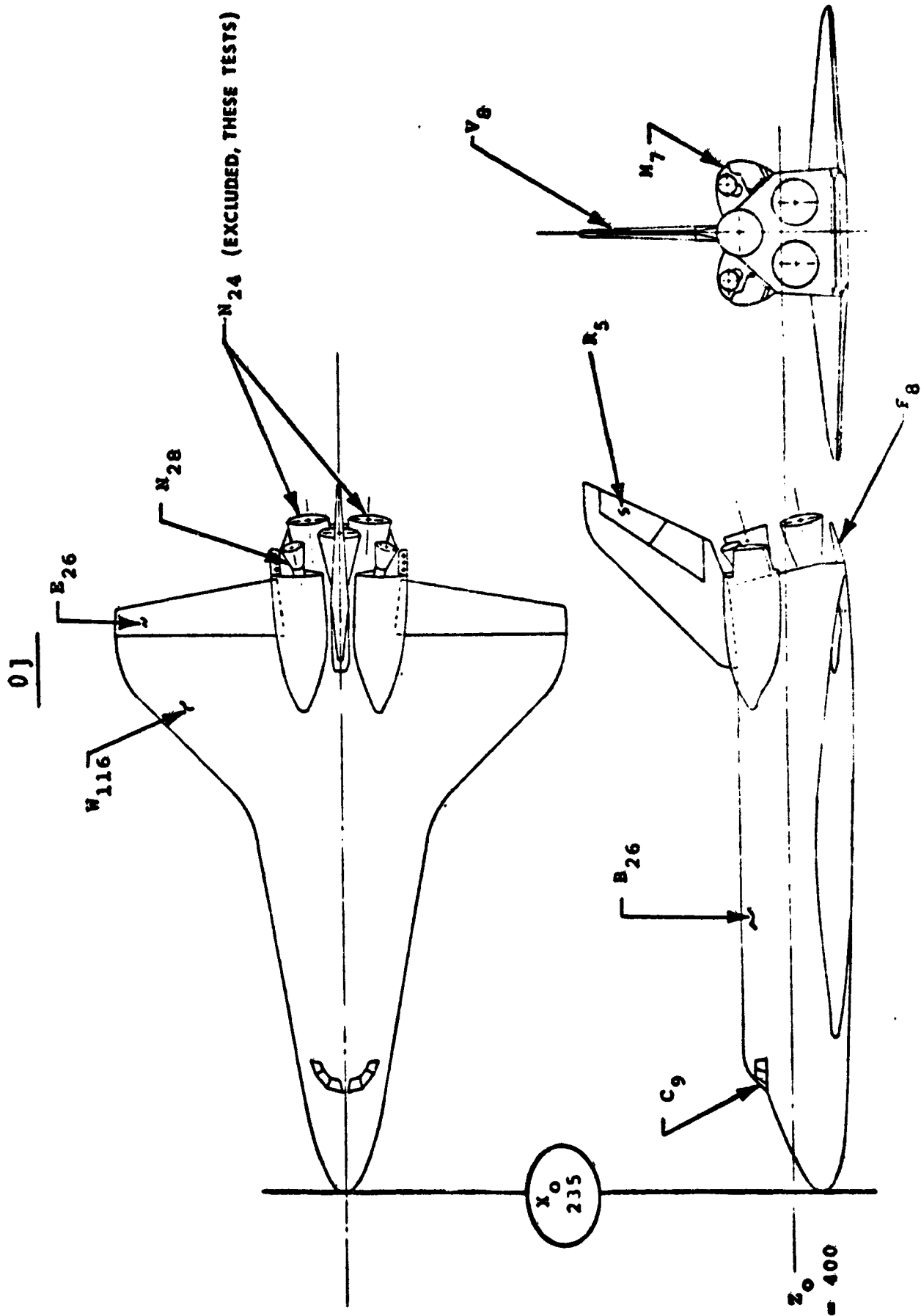
REFERENCE	DIMENSIONS (FS)
AREA	$S_v = 2690 \text{ FT}^2$
MAC	$C = 474.8 \text{ IN.}$

SPAN	$b_v = 936.68 \text{ IN.}$
LENGTH	$l_g = 1290.3 \text{ IN.}$

ALL DIMENSIONS IN INCHES
FULL SCALE

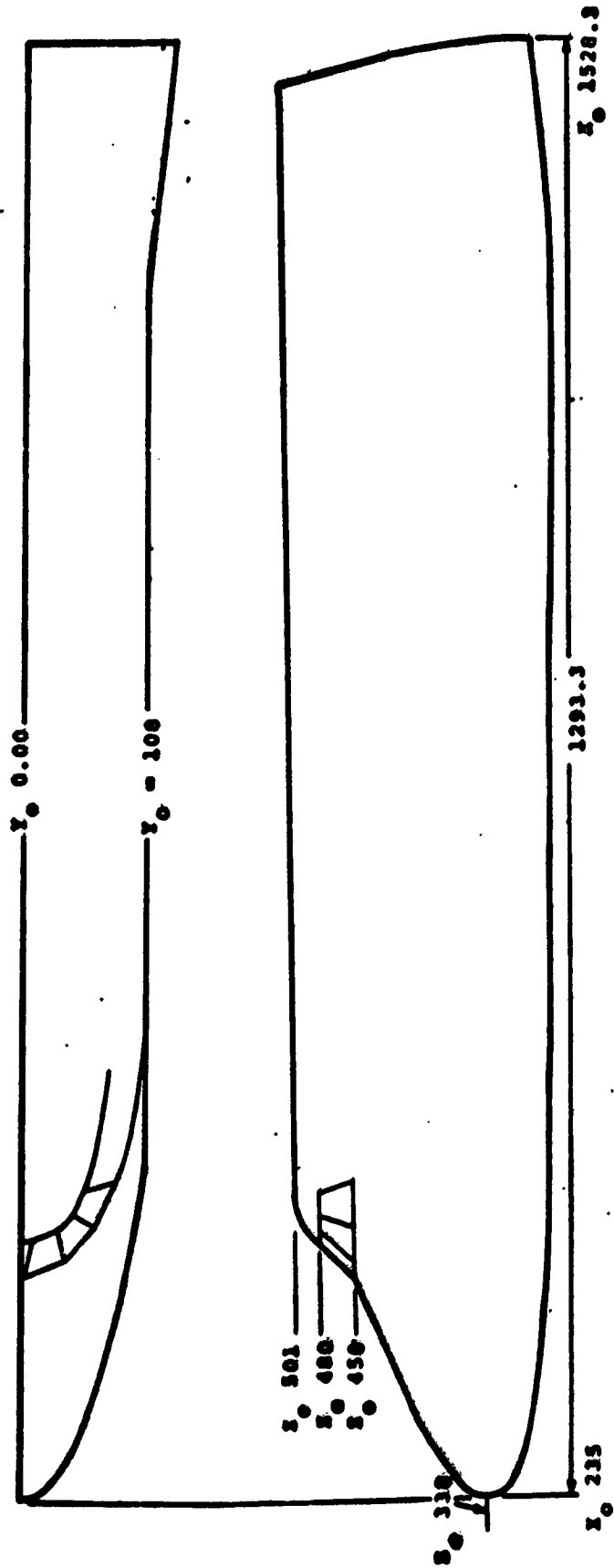


f. SSV orbiter configuration 140A/B
Figure 2. - Continued



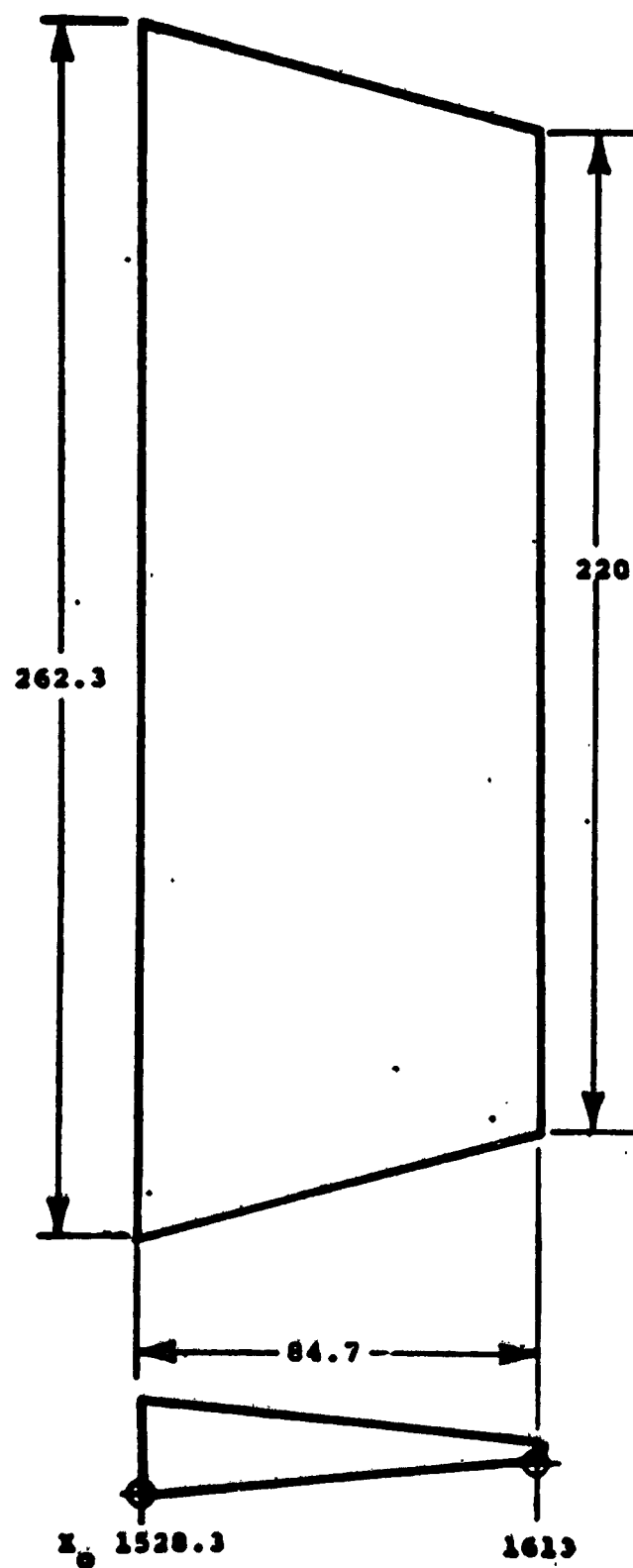
g. Orbiter nomenclature

Figure 2. - Continued



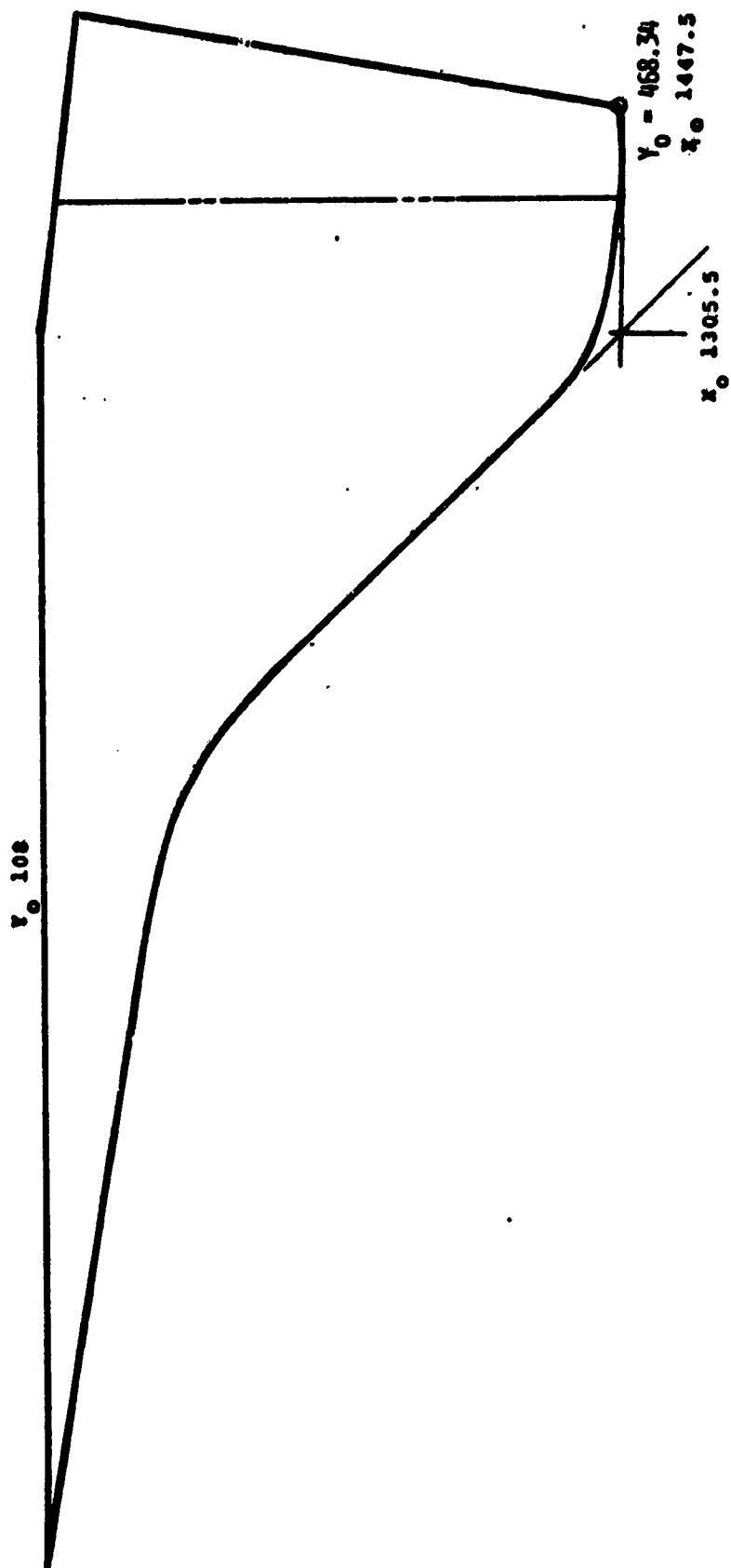
h. Canopy, Cg, and body, B26, lines drawing VL70-000193 and VL70-000140A/B

Figure 2. - Continued



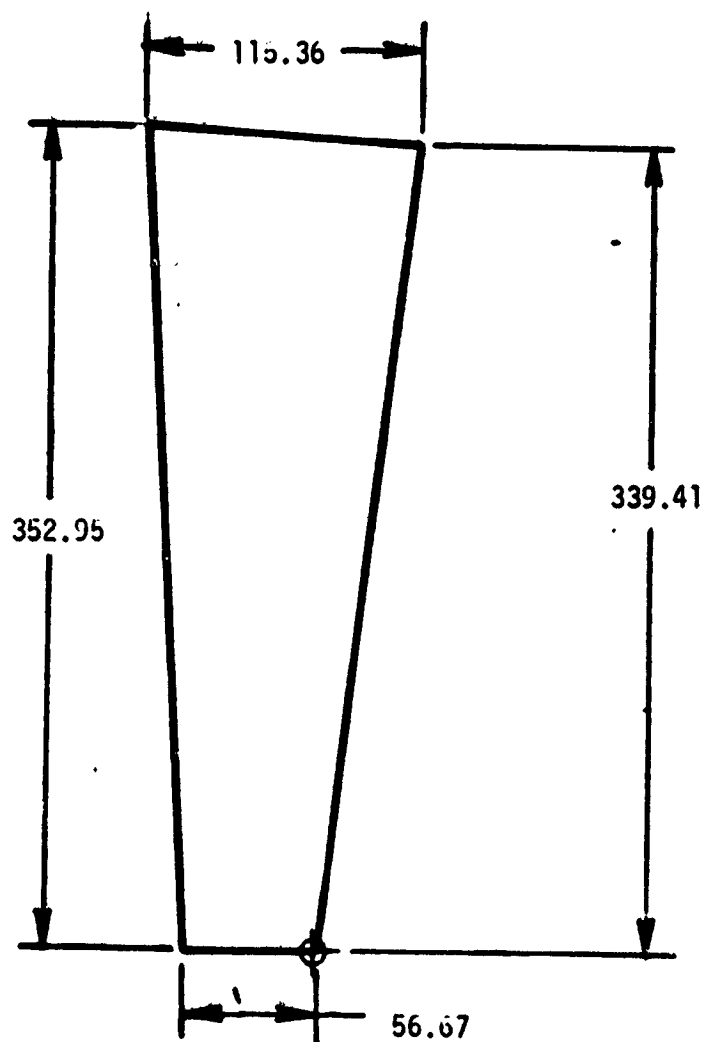
j. Body flap, F₈, lines drawing VL70-000140A/B

Figure 2. - Continued



k. Wing. W116, lines drawing no. VL70-000200

Figure 2. - Continued

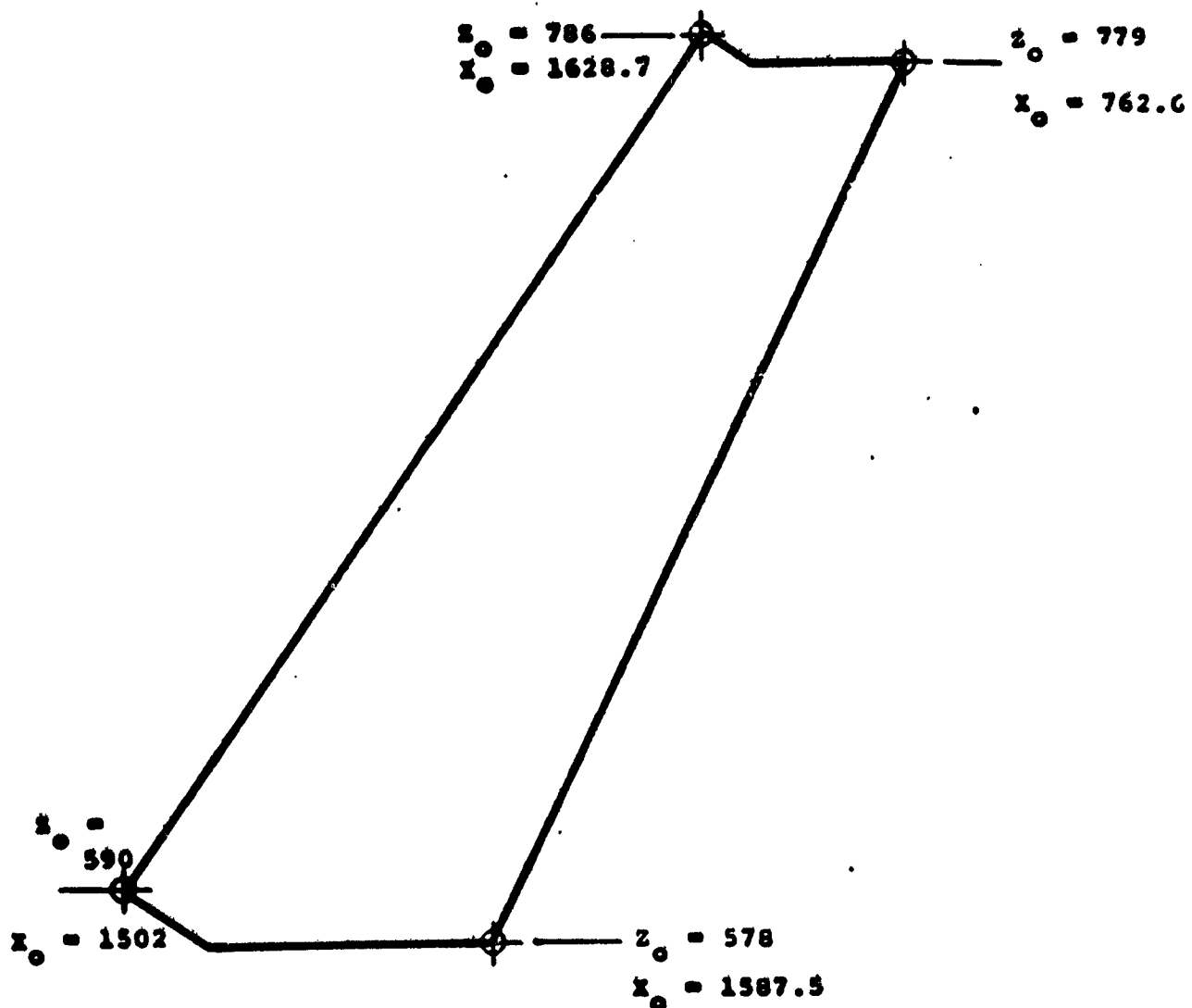


1. Elevon, E₂₆, lines drawing VL70-000200, VL70-000140 A/B

Figure 2. - Continued

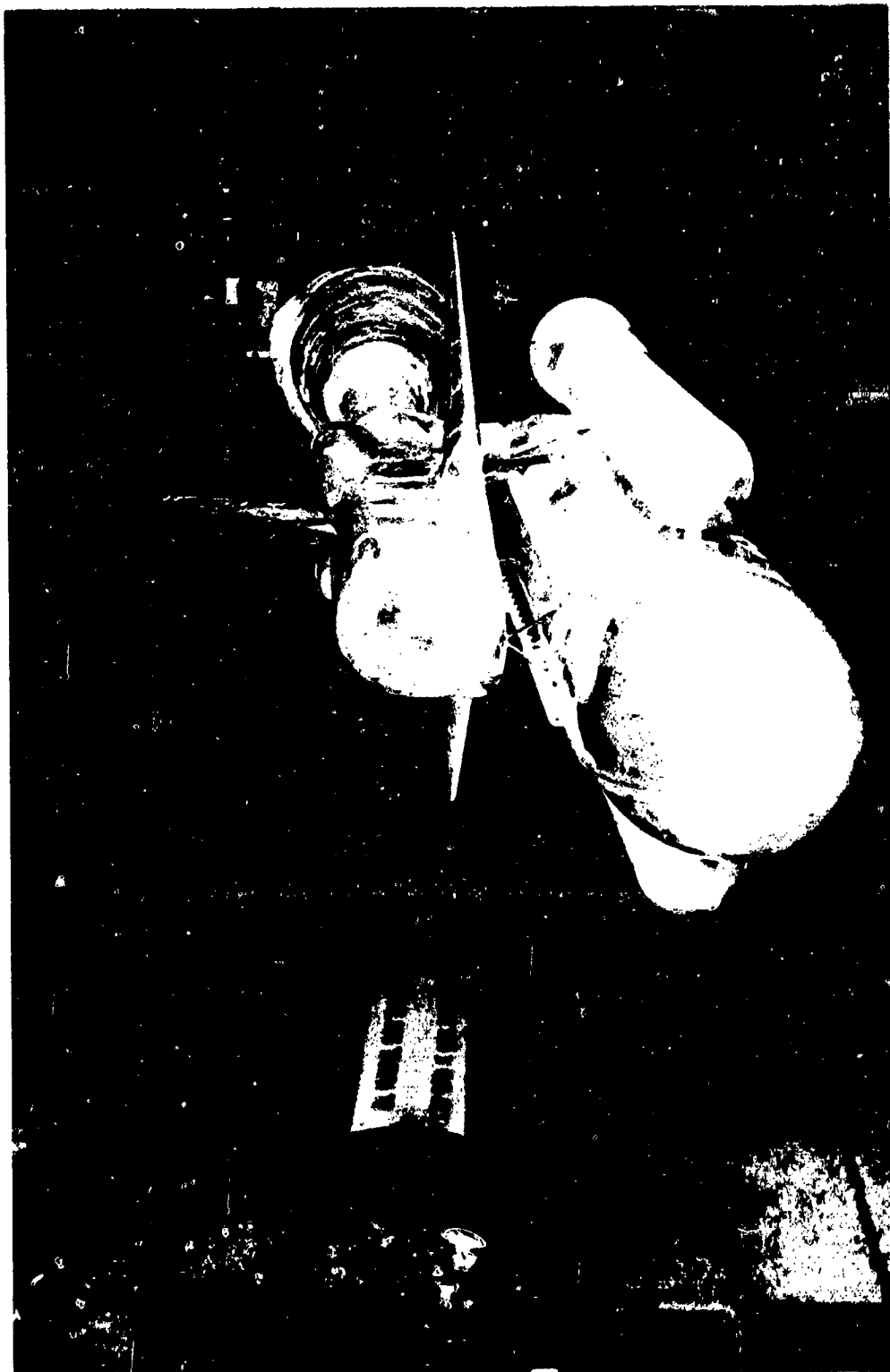
1. Elevon, E₂₆, lines drawing VL70-000200, VL70-000140 A/B

Figure 2. - Continued

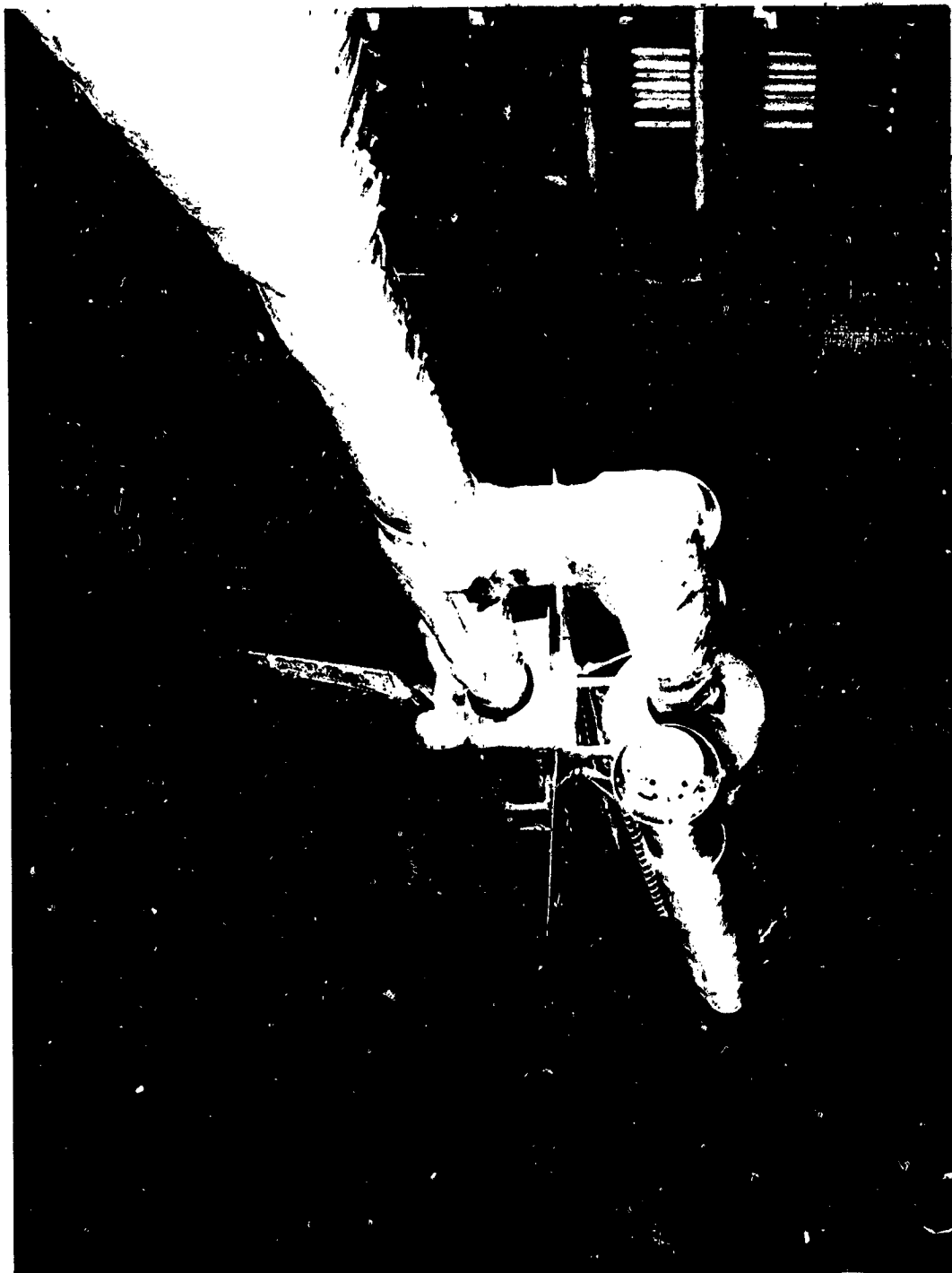


n. Rudder, R_5 , lines drawing no. VL70-000095

Figure 2. - Concluded



a. Front view of model installed in tunnel
Figure 3. - Continued.



b. Rear view of model installed in tunnel

Figure 3. - Concluded.

TABULATED PRESSURE DATA

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 1

ARC97-716 1A14 Q1+T12+SIEN25+AT11 ORB. FUSELAGE

(R63811) (16 JAN 74)

REFERENCE DATA

REF = 2.4210 36. FT. XMRP = 29.5800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.950 BETA(1) = -7.970

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2360	.3010	.3790	.4990	.5760
PM1	.0000	1.4710	.9631	.9632	.3924	.3021	.0000	-.0154	-.0053	.0647	.0676	-.0087	-.0206	-.0547	
20.000			.6002	.4376	.2860	.7501		.0376	-.0262	-.0394	.1200	.0049	-.0100	-.0325	-.0076
40.000			.9051	.5604	.3637	.5731		.0455	.0394	.1671					
55.000			1.0230	.7407	.5500	.4429		.2932	.1671						
70.000			1.0510	.7715	.5776	.4546		.3908	.2731	-.0822	.0592	.0626	.0637		
90.000		1.2230	1.0110	.7622	.5621	.4625		.4595	.2602	-.0186	-.0782	.0429	.0621		
120.000			.9455	.7290	.6025	.5865		.7001	.3546	.0647	-.1657	-.0206	.0227		
140.000									.3366						
150.000			.8015	.6377	.5473	.5587			.1769	-.1962	-.1453	-.0497	.0012		
151.000								.8664							
156.000								1.1010	.9077						
162.000										-.0549	-.1626	-.1337	-.0669	-.0266	
165.000															
169.000								1.1110							
174.000															
180.000	1.4710	.9749	.6656	.5604	.4995	.5018		.9283		-.1605	-.2044	-.1050	-.0669	-.0156	
X/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PM1	.0992	-.0270	.2636	.3937	-.3537	-.3490	-.2312		-.1757	-.1763					
40.000	.1179	.1947	.5125	.0509	-.3602	-.4050	-.3435		.0000	-.1825					
70.000	.1165	.2066	-.0031	.1394	.1771	.1461	.1533								
90.000	.1306	.1061	.0301	.2220	.1296	.1093	.1044								
105.000		.1644	.2021	.0774	.0735	.0872									
110.000							.0309								
120.000	.0840	.0716	.3732	.2597	.0331	.0455	.1485								
135.000			.4214	.4145	-.0046	.2706	.2166								
150.000	.0283	.0407	.2395	.2561	.3372	.3566	.1893								
165.000	.0003		.2457	.5071	.3660	.1240									
180.000	-.0277	.0086	.3056	.3807											

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01-T12-S12M3-A711 ORB. FUSELAGE (M83811)

ALPHA(1) = -7.930 BETA(2) = -4.300

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PMI	1.4770	.9801	.5841	.3768	.3616	.0000		.0913		.0450	-.0159	.1403	.0403	.0032	-.0479
20.000		.6610	.4436	.3336	.6003			.0156		-.0032	-.0324	-.0376	-.0444	.0032	-.0043
40.000		.8019	.5280	.3636	.5196			.0000		.1132	-.0423				
55.000		.8876	.6366	.4636	.4304			.2359		.2098	-.1366	-.0652	.0094	.0403	
70.000		.9170	.6691	.5029	.4153			.3230		.2133	-.0819	-.1212	.0068	.0399	
90.000	1.0830	.9026	.6833	.5043	.4201			.3666		.2674	-.0017	-.2235	-.0969	.0402	
120.000		.8811	.6800	.5593	.5377			.6404		.2423					
140.000		.8029	.6615	.5649					.8126	.0362	-.1959	-.0998	-.0441	.0159	
150.000								1.0610							
156.000									.8753	-.0423	-.1486	-.0719	-.0444	-.0104	
162.000								1.1160							
165.000										-.1502	-.1698	-.0722	-.0330	-.0369	
169.000								1.2090							
174.000	1.4770	1.0170	.7176	.6226	.5511	.5777		1.0290							
180.000	.6530	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0460					

PMI	.0360	-.0088	.2163	.3206	-.3317	-.2483	-.1863		-.1656	-.1659					
40.000	.0309	.1453	.3768	-.0172	-.3395	-.3256	-.2885		.0000	-.1672					
70.000	.0600	.1449	-.0262	.1149	.1166	.0867	.0899								
90.000	.0862	.0177	.0258	.1659	.0763	.0520	.0378								
105.000			.1543	.1496	.0209	.0183	.0304								
110.000	.0474	.0536	.3055	.1579	-.0291	.0160	.0629	-.0026							
120.000		.4421	.4417	.0456	.1804	.1254		.0327							
135.000	.0112	.0348	.2948	.3910	.2530	.2501	.7917								
150.000	-.0065		.3003		.4187	.2767	.0366								
155.000	-.0065	.0045	.3329	.3617											

ALPHA(1) = -7.980 BETA(3) = -.130

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PMI	1.5190	1.0030	.5736	.3262	.3480	.0000		.0717		-.1114	-.0781	.1320	.0174	-.0611	-.0896
20.000		.6106	.3990	.3345	.6094			.0052		.0759					
40.000		.6897	.4119	.3424	.4623			-.0567		-.0309	-.0262	.0601	.0170	-.0114	-.0210
55.000		.7358	.4787	.3846	.3651			.1737		.0511					
70.000		.7609	.5016	.3629	.3458			.2537		.1435		-.1775	-.0411	.0160	
90.000		.8744	.7599	.5373	.3856	.3364		.3290		.1245		-.1799	-.0634	.0163	



ARC97-716 1A14 01+712+812M25+AT11 ORB. FUSELAGE (R03611)

ALPHA(1) = -7.980 BETA(3) = -.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5790
Phi															
150.000		.7632	.5605	.4662	.4806		.5862		.1851	-.0800	-.2842	-.1360	-.0156		
140.000									.0562						
130.000		.7703	.6306	.5304	.5717				-.0487	-.1946	-.0928	-.0324	-.0496		
120.000								.7383							
110.000							1.0030		.8203						
100.000										-.0439	-.1766	-.0618	-.0321	-.0456	
90.000															
80.000							1.1100								
70.000															
60.000	1.3190	1.0030	.7551	.6407	.5630	.5937	1.0950		-.1856	-.1840	-.0065	-.0243	-.0360		
50.000															
40.000	.6330	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460					

Phi

30.000	-.0116	.0219	.2008	.2941	-.3267	-.2241	-.1917		-.1745	-.1604					
20.000	-.0152	.0886	.2910	-.1447	-.3609	-.2594	-.2267		.0000	-.1752					
10.000	.0344	.0886	-.0271	.0763	.0834	.0569	.0575								
0.000	.0377	.0545	.0347	.1236	.0222	.0167	.0387								
-10.000		.1468	.1243	-.0202	-.0137	.0290									
-20.000							-.0335								
-30.000	.0274	.0390	.1960	.1259	-.1034	-.0463	-.0397								
-40.000			.4873	.4969	.0070	.0672	.0072								
-50.000	.0232	.0383	.3933	.5237	.1837	.1365	-.0076								
-60.000	.0235		.3966		.3588	.1637	-.0393								
-70.000	.0219	.0351	.3694	.5240											

ALPHA(1) = -7.970 BETA(4) = 3.810

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5790
Phi															
150.000		1.4800	1.0330	.5179	.2246	.2543	.0000	.1335		-.1387	.0387	.0951	-.0210	-.1260	-.1160
140.000										.0489					
130.000		.5431	.2878	.2212	.3945		-.1704	-.0114		.0522	-.0113	.0445	-.0615	-.0589	-.0645
120.000			.5753	.3308	.2455	.2707	.0913			-.0010					
110.000			.6095	.3633	.2625	.2415	.2150			.0728	-.2372	-.2243	-.0311	-.0312	
100.000		.6920	.5243	.4033	.2730	.2328	.2762			.0523	-.2163	-.2605	-.1198	-.0352	
90.000			.8750	.4864	.3715	.3594	.4498			.0677	-.1470	-.3564	-.2077	-.0669	
80.000										-.0803					
70.000											-.2121	-.1079	-.1102	-.1080	
60.000															
50.000															
40.000															
30.000															
20.000															
10.000															
0.000															

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ARC97-716 1A14 01+712+512N25+7111 ORB. FUSELAGE (R33811)

ALPHA(1) = -7.090 BETA(1) = 7.780

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0823	-.0289	.1149	.0232	-.3412	-.2717	-.2487		-.1786	-.1725
40.000	.0072	.0474	.2169	-.3074	-.3792	-.2630	-.2116		.0000	-.1696
70.000	.0038	.0474	.0200	.0509	.0586	.0525	.0905			
90.000	.0406	-.0102	.0734	.0811	-.0020	-.0092	.0426			
103.000		.1123	.0769	-.0593	-.0308	-.0046				
110.000						-.0262				
120.000	.0216	.0448	-.0237	.0135	-.2510	-.1513	-.1436			
133.000		.2458	.3998	-.1471	-.1869	-.2242				
150.000	.0794	.0046	.3423	.5109	-.0101	-.1334				
165.000	.0236	.3484	.2000	.0475	-.1170					
180.000	-.0296	.0300	.3333	.4903						

ALPHA(2) = -4.020 BETA(2) = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.4270	.9869	.9849	.3383	.2736	.0000		-.0444	-.0469	-.1293	.0823	.0099	.0339	-.0526	
20.000		.7083	.4336	.2598	.7125			.0214	-.0431	-.0475	.0060	-.0194	.0125	.0399	
40.000		.9391	.9844	.3776	.4355			.0234	-.0475	-.1234	.0060	-.0194	.0125	.0399	
55.000		1.0360	.7486	.5468	.3733			.2605	.1104	-.1126	-.0294	.0498	.0219		
70.000		1.0260	.7679	.5656	.3740			.3082	.2344	-.0521	-.0886	.0209	.0232		
90.000	1.1680	.9688	.7523	.5549	.4216			.3675	.2619	.0206	-.2027	-.1179	-.0370		
120.000		.8671	.6510	.5196	.4660			.6576	.3213	.0206	-.2027	-.1179	-.0370		
140.000								.2926	.1711	-.2343	-.1995	-.1176	-.0313		
150.000		.6992	.5420	.4565	.4339			.8159							
171.000								1.0450	.8493	-.1189	-.2207	-.2001	-.1226	-.0639	
196.000								1.0490							
199.000															
174.000	1.4270	.8742	.9865	.4763	.4099	.3785	1.1170	.8626	-.2042	-.2639	-.1621	-.1179	-.0635		
187.000	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
X/L															
PHI															
.000	.1107	-.0770	.3132	.4033	-.1932	-.3448	-.2053		-.1593	-.1609					
40.000	.1470	.2056	.9338	.1537	-.3477	-.4011	-.3310		.0000	-.1690					
70.000	.0607	.2107	-.0564	.0187	.0993	.0776	.0937								
90.000	.0900	.0167	-.0352	.1448	.0514	.0368	.0248								
103.000		.0712	.0769	.0542	-.0315	-.0014									
110.000								-.0135							

ARC97-718 1A14 Q1-T12-SIGNE5-A151 CRB. FUSELAGE (023811)

ALPHA(1,2) = -4.020 BETA(1,1) = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0014	-.0191	.3108	.2977	-.0043	-.0237	.0266	.0511		
135.000			.2771	.3045	-.0865	.1866	.1606			
150.000	-.0277	-.0290	.1472	.1450	.2536	.3035	.1375			
165.000	-.0377		.1872		.4404	.3174	.0847			
180.000	-.0773	-.0331	.2429	.2658						

ALPHA(1,2) = -4.020 BETA(1,2) = -4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0280	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.4220	1.0230	.5972	.3364	.3043	.0000		.0617		-.0044	-.0803	.0761	.0487	-.0268	-.0299
20.000			.6766	.4182	.2697	.6501		.0024		-.0365					
40.000			.8032	.5130	.3677	.4937		-.0229		-.0597	-.2091	.0001	-.0749	.0247	-.0041
55.000			.8707	.6161	.4619	.3681		.1866		.0642					
70.000			.8798	.6323	.4616	.3228		.2339		.1768	-.1379	-.1209	-.0102	-.0209	
90.000		1.0270	.8468	.6361	.4610	.3468		.3121		.1920	-.1041	-.1628	-.0574	-.0111	
120.000			.7987	.5976	.4765	.4392		.5955		.2332	-.0430	-.2359	-.1667	-.0190	
140.000										.1987					
150.000			.6983	.5575	.4671	.4483			.7645	.0035	-.2445	-.1875	-.1205	-.0447	
151.000								1.0100							
158.000									.8193						
162.000										-.0935	-.2116	-.1435	-.1039	-.0756	
169.000															
174.000															
180.000	1.4220	.9080	.6162	.5228	.4371	.4331	1.1390	.9720		-.1949	-.2396	-.1259	-.1039	-.0970	
PHI															

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0494	-.0325	.2403	.3172	-.3505	-.2879	-.1798		-.1399	-.1437
40.000	.0348	.1784	.4134	.0283	-.3286	-.3663	-.3031		.0070	-.1443
70.000	.0330	.1488	-.0974	.0135	.0321	.0195	.0271			
90.000	.0439	-.0348	-.0631	.1040	.0072	-.0168	-.0290			
105.000			.0340	.1078	-.0244	-.0790	-.0357			
110.000										
120.000	-.0687	-.0129	.2499	.2982	-.0623	-.0622	-.0178		-.0184	
135.000			.3437	.3532	-.0567	.1200	.0627			
150.000	-.0423	-.0186	.2876	.2689	.1731	.1915	.0475			
165.000	-.0344		.2373	.3422	.2136	-.0061				
180.000	-.0328	-.0387	.2611	.3317						

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 OL-712-S12M3-A711 ORB. FUSELAGE (R03811)

ALPHA(2) = -4.030 BETA(3) = -1.140

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
Psi																
.000	1.4710	1.0810	.3758	.2613	.2653	.0000	.0118									
20.000			.6242	.3192	.2485	.6898	-.0441									
40.000			.6904	.4024	.2980	.4672	-.0992									
55.000			.7139	.4596	.3565	.2711	.0562									
70.000			.7225	.4779	.3486	.2400	.1872									
90.000			.8225	.7113	.5045	.3572	.2852									
120.000				.7099	.5198	.4157	.3368									
140.000					.5517	.4569	.4328									
150.000																
171.000																
158.000																
162.000																
145.000																
164.000																
174.000																
160.000	1.4710	.6798	.6483	.5520	.4815	.4414	1.0990	1.0390								
161.000																
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						

SECTION (1) ORBITER FUSELAGE																
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
Psi																
.000	.0074	-.0187	.2024	.2411	-.3410	-.2399	-.1929									
40.000	-.0228	.1211	.3039	-.1072	-.3374	-.2844	-.2336									
70.000	.0031	.0877	-.0927	-.0141	.0050	-.0080	-.0054									
90.000	.0114	-.0476	-.0151	.0476	-.0332	-.0435	-.0365									
105.000			.1001	.0483	-.0694	-.0866	-.0432									
110.000								-.0857								
121.000	-.0081	.0008	.1518	.0493	-.1178	-.0923	-.0870	-.0843								
135.000			.3811	.4220	-.0289	.0364	-.0108									
150.000	-.0213	.0058	.3111	.4224	.1260	.0875	-.0446									
164.000	-.0193		.3091		.2693	.1177	-.0863									
160.000	-.0184	-.0008	.3121	.4082												

ALPHA(2) = -4.030 BETA(3) = 3.760

SECTION (1) ORBITER FUSELAGE				DEPENDENT VARIABLE CP												
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
Psi																
.000	1.4180	1.1090	.5198	.1760	.1889	.0000	.0847									
20.000			.5205	.2048	.1986	.4924	-.0704									
40.000			.5403	.0698	.1789	.3722	-.2032									
55.000			.5470	.3082	.2238	.2045	.0175									
70.000			.6871	.3377	.2568	.1775	.1295									
90.000				.3377	.2568	.1775	.1295									
120.000					.1760	.1889	.0000									
140.000																
150.000																
171.000																
158.000	1.4180	.6798	.6483	.5520	.4815	.4414	1.0990	1.0390								
161.000																
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						

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OF POOR QUALITY

RECEIVED 2-6 1964 02-10-110202-1011 CRB. FUSELAGE (R03811)

ALPHA (P) = -4.030 BETA (A) = 3.760

SECTION 1100B1TER FUSelage

DEPENDENT VARIABLE CP

DATE	0000	0060	0230	0470	0700	1120	1500	1670	1700	2050	2520	3010	3790	4990	5780
7/1															
127.000			.6034	.4331	.3364	.2832		.4257		.0002	-.1782	-.3084	-.2300	-.1108	
140.000										-.0931					
150.000			.6094	.5133	.4210	.3702			.5817	-.1409	-.2622	-.1876	-.1683	-.1507	
151.000								.6470							
156.000									.6903						
162.000										-.1079	-.2507	-.1162	-.1392	-.1517	
165.000								.9988							
169.000							1.0030								
174.000										-.2170	-.2286	-.1412	-.1240	-.0944	

3

[illegible]
$$\Delta \text{BETAO}(\text{S}) = -4.040 \quad \text{BETAO}(\text{S}) = 7.760$$

SECTION 1100001 TEN FUSELAGE

DEPENDENT VARIABLE CP

[illegible]

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 9

ARC97-716 1A14 CR-712-SIGNE-AT11 CRB. FUSELAGE (M83811)

ALPHA(2) = -4.040 BETA(3) = 7.760

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1590 .1670 .1760 .2030 .2520 .3010 .3760 .4990 .5760

P41

165.000
166.000
174.000
180.000
1.4260 .7462 .3792 .4932 .4266 .3744 .9966
-1.926 -2.252 -1.956 -1.1377 -1.985

P4.9

.6530 .7300 .7610 .6230 .6620 .6230 .9630 1.0020 1.0210 1.0480

P41

.0227 -.0512 .1367 .0232 -.3372 -.2640 -.2364
-.1677 -.1601
40.000 .0018 .0820 .2199 -.2531 -.3659 -.2424 -.2064
70.000 .0343 .0817 -.0414 .0046 .0026 -.0412 -.0422
90.000 .0346 -.0207 .0334 .0374 -.0536 -.0548 -.0723
103.000 .0926 .0347 -.1021 -.0805 -.0816
110.000 .0103 .0499 .0271 -.1017 -.8281 -.1624 -.1677
120.000 .0018 .2051 .3600 -.1516 -.1961 -.2229
135.000 -.0306 .0136 .2534 .3752 -.0734 -.0465 -.1660
150.000 -.0409 .2534 .1354 .0025 -.1567
160.000 -.0459 -.0217 .2597 .3762-1.964
-1.630

ALPHA(2) = -2.800 BETA(3) = -7.920

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1590 .1670 .1760 .2030 .2520 .3010 .3760 .4990 .5760

P41

1.3660 1.0130 .5967 .3115 .2145 .0000
-1.0047 -1.344 -1.1367 -1.0049 -1.0076 -1.0018
20.000 .7365 .4201 .2148 .6306
-1.0997 -1.0877 -1.0854 -1.0664 -1.0046 .0620 .1266
40.000 .9882 .5898 .3517 .3175
55.000 1.0550 .7635 .9280 .2814
70.000 1.0120 .7679 .3442 .3179
90.000 .9230 .7219 .5104 .3620
110.000 .7637 .5608 .4216 .3623
120.000 .5994 .4314 .3371 .3279
135.000 .7965
150.000 .7967
160.000 .9867
174.000 .8090
180.000 .9967
1.3660 .7365 .4201 .2148 .6306
-1.0047 -1.344 -1.1367 -1.0049 -1.0076 -1.00181.3660 .7365 .4201 .2148 .6306
-1.0047 -1.344 -1.1367 -1.0049 -1.0076 -1.0018

0003011)

ARCS7-716 1A14 Q1-T18-S18M25-A711 ORG. FUSELAGE

ALPHA(1) 3) = -.200 BETA(1) 3) = -7.920

SECTION 1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

M/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
Pa1										
.000	.1702	.1075	.3514	.4069	-.3632	-.3463	-.2044		-.1554	-.1557
40.000	.1862	.2803	.6112	.3271	-.2960	-.3946	-.3935		.0000	-.1980
70.000	.0230	.2520	-.1132	-.1274	.0177	.0147	-.0331			
90.000	.0482	-.0393	-.0913	.1002	.0051	-.0262	-.0452			
105.000		-.0804	.1131	-.0006	-.0769	-.0729				
110.000							-.1003			
120.000	-.0731	-.0910	.2184	.1667	-.0429	-.0702	-.0669	-.0300		
135.000			.1926	.2472	-.1466	.0940	.0917			
150.000	-.0827	-.0800	.1003	.0965	.1513	.2459	.0900			
165.000	-.0969		.1654	.3648	.2509	.0704				
180.000	-.0966	-.0512	.2535	.2091						

ALPHA(1) 3) = -.800 BETA(1) 2) = -4.100

SECTION 1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5780
Pa1															
.000	1.3750	1.0800	.6190	.3027	.2559	.0000		-.0369	-.1336	-.1185	-.1825	-.0288	-.0713	.0000	
20.000		.6969	.3909	.2340	.6310			-.0141	-.0640	-.1403	-.1241	.0582	.0502	.0000	
40.000		.6164	.4930	.3370	.4727			-.0292	-.1403	-.2226	-.1241	.0582	.0502	.0000	
60.000		.6800	.5679	.4262	.3174			.1464	.0142	.1395	-.1592	-.1281	-.1433	-.0589	
80.000		.6517	.5910	.4255	.2679			.1819	.1846	-.1125	-.1994	-.2139	-.0457	-.0457	
90.000	.9795	.6074	.5920	.4069	.2943			.2207	.8762	-.0677	-.3015	-.2423	-.0845		
120.000		.7298	.5188	.4062	.3505			.5669	.1714						
140.000		.6073	.4733	.3764	.3522				-.0302	-.2919	-.2700	-.1980	-.1359		
150.000								.7215							
168.000								.9614							
189.000									-.1427	-.2581	-.2295	-.1849	-.1703		
199.000															
199.000	1.3750	.6081	.3227	.4357	.3682	.3405		1.0070		-.2402	-.2823	-.2101	-.1816	.0570	
199.000	.6130	.7300	.7610	.8230	.8320	.9230	.9630	1.0020	1.0210	1.0480					

M/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Pa1															
.000	.0000	.0000	.0000	.3443	-.3620	-.2910	-.1872		-.1345	-.1115					
40.000	.0000	.0000	.0000	.1695	-.3337	-.3964	-.3367		.0000	-.1351					
70.000	.0000	.0000	.0000	-.0909	-.0060	-.0218	-.0188								
90.000	.0000	.0000	.0000	.0803	-.0344	-.0621	-.0771								
105.000	.0000	.0000	.0000	.0567	-.0448	-.1162	-.0458								
110.000															



9C97-716 1A14 01-112-512N23-AT11 CR8. FUSELAGE

115500

ALAC 13 - (6) CAC 13 - 202 - -4.100

SECTION 11 ORBITER FUSELAGE

λ/L	.6330	.7300	.7810	.8230	.8230	.9230	.9630	1.0020	1.0210	1.0400
μ_{41}										
120.000	.0000	.0000	.0000	.2269	-.0436	-.1015	-.0695	-.0699		
155.000	.0000	.0000	.0000	.2819	-.1202	.0656	.0391			
190.000	.0000	.0000	.0000	.1621	.1033	.1434	.0047			
195.000	.0000	.0000	.0000	.2665	.2665	.1551	-.1405			
199.000	.0000	.0000	.0000	.2216						

012- (S) CVA38 = -210
011- (S) CVA38 = -170

SECTION (1) ORBITER FUSELAGE

1960	0.0000	0.0000	0.0230	0.0470	0.0700	0.1120	0.1590	0.1670	0.1760	0.2030	0.2320	0.3010	0.3760	0.4960	0.5760
1961		1.4140	0.3669	0.2163	0.2244	0.0070		0.0050		-0.1312	-0.1611	-0.2217	0.0610	-0.0510	-0.0462
20.000			0.6326	0.2692	0.2077	0.6069		-0.0715		0.0492					
40.000			0.7159	0.3693	0.2630	0.4569		-0.1195		-0.1065	-0.1039	-0.1605	0.0615	-0.0096	-0.0342
55.000				0.7049	0.4423	0.3320	0.2410	0.0576		-0.0476					
70.000			0.6950	0.4573	0.3260	0.1962	0.1226	0.1616		0.0624	-0.2061	-0.1737	-0.1677	-0.0560	
90.000	0.7676		0.6774	0.4796	0.3210	0.2308	0.1616		0.1049	-0.1760	-0.2115	-0.2562	-0.2562	-0.0564	
120.000			0.6508	0.4626	0.3563	0.3165	0.5032		0.1323	-0.1423	-0.3162	-0.2062	-0.2062	-0.0643	
150.000									0.0470						
200.000			0.6665	0.4656	0.3466	0.3462			-0.1066	-0.2676	-0.2026	-0.1434	-0.1258		

1.0190

CCO:COJ

[illegible]

ARC97-716 1A14 OR-712-312N5-AT11 ORB. FUSELAGE (R03811)

ALPHA(1,3) = -.210 BETA(1,4) = 3.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
.000	1.4370	1.1180	.4816	.1218	.1684	.0000		.1145		-.1682	-.1548	-.1207	-.0235	-.0759	-.0428
20.000			.4987	.1719	.1541	.4808		-.0875		-.0131					
40.000			.5193	.2493	.1544	.3346		-.2059		-.0675	-.1082	-.1978	-.0039	-.0633	-.0141
55.000			.5282	.2989	.2098	.1654		-.0081		-.1118					
70.000			.5508	.3169	.2235	.1275		.0709		.0271	-.2565	-.2564	-.2058	-.0813	
90.000			.5491	.3530	.2305	.1482		.1549		.0413	-.2295	-.2756	-.2434	-.0716	
120.000		.5644	.5491	.3530	.2305	.1482		.4059		.0492	-.1997	-.3676	-.2387	-.1205	
140.000			.5581	.3867	.2902	.2429				-.0956					
150.000			.5519	.4404	.3543	.2983			.8470	-.1614	-.3012	-.1992	-.1856	-.1460	
151.000								.7944							
156.000									.6410						
162.000										-.1465	-.2884	-.1510	-.1635	-.1474	
165.000								.9410							
169.000															
174.000															
180.000	1.4370	.7066	.3458	.4714	.4010	.3509	1.0250	.9477		-.2500	-.2705	-.1696	-.1474	-.1327	
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PM1

.000	.0843	-.0827	.1950	.0691	-.3252	-.2299	-.2017								
40.000	.0704	.1360	.2423	-.1320	-.3435	-.2316	-.1960		-.1384	-.1374					
70.000	-.0217	.1383	-.1088	-.0280	.0063	.0163	.0106		.0000	-.1248					
90.000	-.0111	-.0671	-.0227	.0082	-.0236	-.0077	-.0170								
105.000		.0711	.0782	-.0736	-.0350	-.0250	-.0250								
110.000								-.0979							
120.000	-.0343	-.0075	.0855	.0092	-.1368	-.0779	-.0916	-.0846							
135.000		.2829	.2829	.3542	-.1022	-.0014	-.0517								
150.000	-.0545	-.0194	.2342	.3150	.0489	-.0203	-.1221								
165.000	-.0681	.2150	.2150	.1387	.0123	-.1550									
180.000	-.0820	-.0383	.2067	.2988											

ALPHA(1,3) = -.210 BETA(1,5) = 7.740

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
.000	1.4050	.9959	.3188	-.0059	.0539	.0000		-.0264		-.1930	-.0365	.0574	-.0805	-.0972	-.0540
20.000			.2638	-.0016	.0924	.3214		-.0356		-.1501					
40.000			.2337	.0376	.1553	.2176		-.2475		-.0963	-.1356	-.0834	-.0537	-.0370	.0330
55.000			.2397	.0897	.1232	.1188		-.0833		-.1666					
70.000			.2986	.1148	.1158	.1100		.0112		-.0379	-.2013	-.2756	-.1994	-.0243	
90.000		.3581	.3581	.1687	.1155	.1036		.1206		-.0104	-.2873	-.3193	-.2935	-.0123	



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1+T12+S12N2+AT11 CR8. FUSELAGE (R83811)

ALPHA(3) = -.210 BETA(3) = 7.740

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1																
120.000			.3965		.2374	.1630	.1559		.2999		-.0375	-.2459	-.4062	-.2909	-.0644	
140.000											-.1937					
150.000			.3959		.3502	.2561	.2114				-.2069	-.3215	-.1654	-.2011	-.1907	
151.000										.4109						
156.000									.7302		.5659					
162.000											-.2201	-.2926	-.1917	-.1737	-.1907	
165.000									.8835							
169.000								.9267								
174.000									.8672		-.2462	-.2645	-.1914	-.1623	-.1576	
180.000	1.4030	.6451	.4594	.4026	.3376	.2849										
X/LB																

PM1																
100.000																
105.000																
110.000																
120.000																
135.000																
150.000																
165.000																
180.000																

ALPHA(4) = 3.940 BETA(4) = -7.880

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1																
1.000	1.2770	1.0660	.6034	.2845	.2083	.0000			-.0030		.0330	-.1346	-.1649	.1195	.0993	.1345
20.000		.7632	.4219	.1507	.5395				-.0131		-.0706					
40.000		1.0020	.6108	.3211	.3422				-.0151		-.0737	-.1810	-.0661	.0189	.1705	.1900
55.000		1.0730	.7531	.5029	.7531	.3017			.2031		.0332					
70.000	1.0330	.7397	.5103	.2966	.2432				.2432		.0954	-.1313	-.0848	-.0093	-.0119	
90.000	.9305	.6995	.4715	.3025	.2521				.2521		.1974	-.0763	-.1092	-.0937	-.0212	
100.000	1.0780	.6939	.4654	.3328	.3672				.3672		.2902	-.0257	-.2314	-.2658	-.2079	
120.000											.2461					
140.000		.4902	.3164			.2535	.2193				.1250	-.3629	-.3247	-.2655	-.1532	
155.000										.7581						
170.000									.9732							
185.000										.7941						
200.000																

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ARCS7-716 1A14 Q1+T12+SIENES+AT11 ORB. FUSELAGE (N83911)

ALPHA(4) = 3.940 BETA(1) = -7.680

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y	5	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2520	.2910	.3790	.4990	.5760
P ₀₁																
165.000									.9490							
169.000																
174.000																
180.000	1.2770	.6760	.3733	.2870	.2330	.1938	.9056		.7263							
X/LB	.8530	.7300	.7610	.8230	.8629	.9230	.9630	1.0020	1.0210	1.0480						
P ₀₂																
.000	.2747	-.0828	.3828	.3768	-.3582	-.3176	-.1917									
40.000	.2303	.4243	.7084	.4973	-.2808	-.3843	-.4166									
70.000	.0015	.1498	-.1570	-.1761	-.0437	-.0359	-.0241									
90.000	.0226	-.0700	-.1471	.0261	-.0383	-.0791	-.1089									
105.000			-.1423	.0613	-.0314	-.1166	-.1276									
110.000																
120.000	-.1744	-.1897	.1031	.1803	-.0676	-.1072	-.1226									
135.000			.1134	.1891	-.1854	.0226	.0190									
150.000	-.1261	-.1030	.1400	.0663	.0697	.1624	.0101									
165.000	-.1172		.1479	.2536	.2035	.0510										
180.000	-.0631	.0367	.1331	.1394												

ALPHA(4) = 3.920 BETA(2) = -4.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2520	.2910	.3790	.4990	.5760
P ₀₁															
.000	1.3010	1.1260	.6478	.2698	.2303	.0000									
20.000			.7332	.3799	.2024	.6246									
40.000			.8630	.5277	.3276	.5167									
55.000			.8733	.6146	.4344	.2894									
70.000			.8336	.5931	.4168	.2358									
90.000	.9364		.7655	.5659	.3823	.2401									
120.000			.6554	.4467	.3232	.2656									
140.000															
150.000			.5143	.3727	.3037	.2693									
151.000															
156.000															
162.000															
163.000															
169.000															
174.000															
180.000	1.3010	.7000	.4335	.3611	.3007	.2673	.9138								
X/LB	.8530	.7300	.7610	.8230	.8629	.9230	.9630	1.0020	1.0210	1.0480					



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+712+512N2+AT11 ORB. FUSELAGE (M83811)

ALPHA(4) = 3.920 BETA(3) = -.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Phi										
125.000	-.0708	-.0655	.1443	.0762	-.1398	-.1408	-.1374	-.1800		
135.000		.8293	.2924	-.1222	-.0173		-.0574			
150.000	-.0705	.0463	.1625	.2124	.0362	.0153	-.1002			
165.000	-.0359	.1627		.1258	.0332		-.1298			
180.000	-.0549	.0248	.2008	.2393						

ALPHA(4) = 3.930 BETA(4) = 3.770

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.4810	1.0930	.3687	.0745	.1924	.0000		.1232		-.1422	-.1789	-.1211	.0948	-.0290	.0622
20.000		.4277	.1314	.1793	.4638			-.1345		-.0446			.0514	-.0370	.0748
40.000		.5026	.2395	.1523	.3090			-.2047		-.0866	-.1689	-.2323			
55.000		.5143	.2880	.1920	.1222			-.0256		-.1457					
70.000		.5246	.2947	.1917	.0817			.0406		-.0328	-.2612	-.2516	-.2460	-.1091	
90.000	.5303	.5266	.3258	.1917	.1092			.0670		.0443	-.2346	-.2780	-.2843	-.0884	
120.000		.5023	.3304	.2352	.1897			.3796		.0310	-.2293	-.3738	-.2600	-.1048	
140.000										-.1095					
150.000		.4496	.3639	.2836	.2275				.5156	-.1678	-.3389	-.2553	-.2059	-.1799	
151.000								.7793							
156.000									.6065						
166.000										-.1891	-.3276	-.1986	-.1966	-.1762	
185.000															
199.000								.9134							
174.000										-.2944	-.3137	-.2179	-.1859	-.1670	
180.000	1.4810	.9959	.4330	.3829	.3194	.2749		.9144							
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Phi															
.000	.1810	-.0805	.2272	.0701	-.3242	-.2197	-.1940								
40.000	.1424	.2066	.2824	-.0892	-.3318	-.2545	-.2077			-.1285	-.1291				
70.000	-.0276	.0372	-.1719	-.0905	.0001	-.0299	-.0400			.0070	-.1185				
90.000	-.0055	-.0942	-.0796	-.0046	-.0426	-.0630	-.0807								
105.000		.0445	-.0046	-.0046	-.0744	-.1011	-.0667								
110.000															
120.000	-.0276	-.0123	.1388	-.0039	-.1844	-.1071	-.1198								
135.000		.2453	.2453	.3165	-.0740	-.0256	-.0658								
150.000	-.0286	.0399	.2002	.2566	.0155	-.0112	-.1131								
165.000	-.0819	.1600		.0990	.0341	-.1465									
180.000	-.0805	.0698	.1464	.2473											



1957-719 1A14 CH + T1B + S1B23 + T11 CRB, PLU-LAGE (R83811)

ALPHA(3) = 0.040 BETA(1) = -7.930

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
24	0.000
25	0.000
26	0.000
27	0.000
28	0.000
29	0.000
30	0.000
31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
37	0.000
38	0.000
39	0.000
40	0.000
41	0.000
42	0.000
43	0.000
44	0.000
45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
66	0.000
67	0.000
68	0.000
69	0.000
70	0.000
71	0.000
72	0.000
73	0.000
74	0.000
75	0.000
76	0.000
77	0.000
78	0.000
79	0.000
80	0.000
81	0.000
82	0.000
83	0.000
84	0.000
85	0.000
86	0.000
87	0.000
88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

[illegible]

M/LB	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0610	1.0480
Pa1										
40.000	.8934	.0226	.3767	.3976	.3599	.2947	-.1666		-.1265	-.1255
40.000	.3626	.3462	.6657	.4211	.3324	-.4123	-.3467		.0000	-.1305
70.000	.0099	.3462	-.1630	-.2327	-.1075	-.1126	-.0662			
80.000	.0070	-.0633	-.1614	-.1291	-.0765	-.1265	-.1576			
103.000			-.1950	.0236	-.0629	-.1548	-.1745			
110.000								-.2090		
120.000	-.3734	-.2355	-.0626	.1366	-.0976	-.1468	-.1634	-.1464		
135.000			-.0335	.0793	-.2321	-.0352	-.0906			
150.000	-.1166	-.0405	.0677	.0690	-.0279	-.0369	-.1501			
165.000	-.0733		.0656		.1010	.1347	.0000			
180.000	-.0491	-.0146	-.0942	.2267						

$$\text{ALPHA}(\text{S}) = 0.020 \quad \text{BETA}(\text{S}) = -4.190$$

SECTION (1) ORBITER FUSELAGE

[illegible]

(003011)

ARC97-716 1A14 Q1+T12+SI2M3+AT11 CRB. FUSELAGE

ALPHA(1) = 0.030 BETA(1) = -.190

SECTION (1) CRIBETER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Pa1										
.000	.2046	-.0294	.2711	.2016	-.3184	-.2042	-.1720		-.1135	-.1195
40.000	.1933	.2330	.4184	.1335	-.3303	-.2760	-.2408		.0000	-.1079
70.000	-.0822	.2645	-.2060	-.1737	-.1277	-.1344	-.1225			
90.000	-.0351	-.1290	-.1905	-.0315	-.1095	-.1644	-.1933			
105.000		-.0376	-.0110	-.1062	-.1913	-.2062				
110.000										
120.000	-.1234	-.1022	.0956	.0261	-.1451	-.1667	-.1379			
135.000			.1579	.2221	-.1531	-.0374	-.0717			
150.000	-.0715	.0411	.1513	.2772	.0201	-.0049	-.1095			
165.000	-.0475	.1629	.1178	.1178	.0151	-.1188				
180.000	-.0294	.0249	.1830	.2776						

ALPHA(1) = 0.030 BETA(1) = 3.840

SECTION (1) CRIBETER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
Pa1															
.000	1.4430	.8433	.0745	.0000	.0000	.0000		-.0909	-.2851	-.1165	-.1534	-.0178	.0356	.0058	
20.000			.2591	.0000	.0000	.0000		-.3785	-.3294						
40.000			.4810	.0000	.0000	.0000		-.4515	-.1295	-.2066	-.2109	-.0175	.0031	.0297	
55.000			.5050	.0000	.0000	.0000		-.2620	-.1790						
70.000			.5000	.0000	.0000	.1126		-.2037	-.1029	-.2824	-.2668	-.1940	-.1355		
90.000	.4664	.4903	.0000	.0000	.0000	-.0909		-.1564	.0032	-.2509	-.3298	-.3226	-.1129		
120.000		.4381	.0000	.0000	.0000	-.0170		.1759	.0418	-.2469	-.4170	-.1209	-.1317		
140.000			.3553	.0000	.0000	.0133			-.0849	-.3782	-.3325	-.2648	-.1923		
155.000									.4524						
166.000								.7226							
182.000									.2609	-.1679	-.2727	-.2549	-.2104		
199.000								.9135							
174.000						.7811		.9578							
180.000	1.4430	.9078	.3280	.0000	.0000	.0764			-.3420	-.3625	-.2687	-.2552	-.3325		

ALPHA(1) = 0.030 BETA(1) = 3.840

SECTION (1) CRIBETER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Pa1										
.000	.1032	-.2009	.1232	.0504	-.3370	-.2031	-.1738		-.1212	-.1222
40.000	.0402	.1303	.1912	-.0393	-.3241	-.2347	-.1694		.0000	-.1116
70.000	-.1914	.1437	-.2072	-.0370	-.0509	-.0742	-.0762			
90.000	-.1632	-.2798	-.1516	.0087	-.0782	-.1038	-.1195			
105.000		.0272	.0120	-.0282	-.1465	-.1222				
110.000										



ARC97-716 1A14 OL-718-S12N3-A711 ORB. FUSELAGE

(R83812)

(18 JAN 74)

REFERENCE DATA

SREF = 2.4210 36.71. WARP = 29.5800 INCHES
 LREF = 36.7090 INCHES WARP = .0000 INCHES
 SREF = 36.7090 INCHES WARP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.000 BETA(1) = -7.980

PARAMETRIC DATA

MACH = 2.800 ELEVON = .000
 RUDDER = .000 SPOILER = .000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	0.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5780
C _{DL}	.0000	1.6360	.7645	.3707	.6367	.4669	.0000	.2110	.2613	.1768	.1665	.0159	.0884	.0886	
80.000				.4088	.8706	.6116	.5217	.2992	.2611			.0042	.1493	.1206	.1017
40.000				.6045	.9120	.7615	.3260	.3305	.0635	.0793					
55.000				.7635	1.0120	.8437	.5247	.4063	.3273						
70.000				.6703	.7401	.7999	.5675	.4130	.3531	.1213	.1303	.1241	.1066		
90.000			1.1100	.6928	.6734	.7089	.6273	.4596	.3679	.1761	.1169	.0484	.0750		
120.000				.9104	.6651	.6184	.6463	.6592	.5519	.2236	-.0036	.0363	.0525		
140.000									.5437						
150.000				.6167	.6462	.5676	.5794		.3526	-.0266	.0782	.0151	.0421		
151.000								1.2140							
156.000								1.3930							
162.000								1.3070							
165.000										.1606	.0106	-.0006	.0707	.0266	
169.000								1.4440							
174.000							1.2010			.0697	-.0630	-.0125	.0039	.0112	
180.000	1.6360	1.0620	.6676	.5666	.5090	.4623		1.2710							
X/L	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0720	1.0210	1.0420					
C _{DL}	.0935	.1000	.3084	.4837	-.1220	-.2062	-.1996		-.1842	-.1482					
40.000	.0764	.1629	.3161	-.0325	-.1549	-.1675	-.1495		.0700	-.1847					
70.000	.1216	.1436	.0556	.0366	.1239	.1299	.1235								
90.000	.1216	.0913	.0504	.1692	.1522	.1141	.0848								
105.000			.0573	.2096	.1682	.0940	.0635								
110.000								.0248							
120.000	.0945	.0933	.3006	.4493	.1269	.1011	.0746								
135.000			.3666	.4473	.0503	.0665	.2099								
150.000	.0474	.0516	.1514	.1430	.1452	.2674	.2730								
165.000	.0207		.0324		.5441	.3773	.2335								
180.000	-.0061	-.0076	-.0245	.2014											



ARC57-716 1A14 OR-712-312N5-A711 ORB. FUSELAGE (H83912)

ALPHAC(1) = -7.070 BETA0(2) = -4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0730	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.0780	.7493	.3843	.7618	.4931	.0700		.1699		.2197	.0733	.1171	.0338	.0680	.0463
20.000		.3819	.8867	.5535	.9335			.2344		.2624					
40.000		.5037	.6972	.7949	.2859			.2343		.1003	.0464	-.0038	.0734	.0603	.0403
60.000		.6241	.5150	.7233	.4340			.3641		.2633					
70.000		.7124	.4858	.6203	.5056			.3354		.2951	.0897	.0721	.0588	.0453	
90.000	.8419	.7438	.5239	.4310	.5315			.3914		.3243	.1206	.0712	.0329	.0321	
120.000		.7937	.6008	.4946	.4970			.6767		.4731	.1580	-.0608	.0212	.0469	
140.000										.4403					
160.000		.7374	.6306	.5483	.4994				1.0980	.2750	-.0165	.0020	.0223	.0376	
180.000								1.1850							
190.000									1.2620	.1627	-.0214	.0089	.0272	.0316	
195.000															
198.000															
199.000															
199.500															
199.900															
199.950															
199.990															
199.995															
199.999															
200.000															

Phi

X/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
Phi										
.000	.0403	.0293	.2323	.4217	-.1136	-.2093	-.2011		-.2073	-.1618
40.000	.0275	.0712	.4364	-.0669	-.1800	-.1837	-.1854		.0000	-.2217
70.000	.0872	.0712	.0127	.0349	.0982	.1033	.0922			
90.000	.0431	.0704	.0132	.1662	.1310	.0814	.0308			
103.000		.0439	.1431	.1323	.0544	.0306				
110.000							-.0048			
120.000	.0783	.0919	.2954	.3628	.0701	.0635	.0444			
135.000		.4171	.4769	.0476	.1170	.1817				
150.000	.0342	.0647	.2063	.2814	.2174	.2850	.1841			
165.000	.0354	.0596		.4804	.3232	.1349				
180.000	.0288	.0337	.0240	.3623						

ALPHAC(1) = -7.000 BETA0(3) = -.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0730	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.7473	.7228	.2609	.7886	.4474	.0300		.0166		.1281	.0933	.0703	-.0772	.0942	.0810
20.000		.3231	.5934	.5934	.5934	.5421		.1266		.0750					
40.000		.3408	.4988	.4988	.4988	.2421		.1548		.1606	.1024	.1376	.0413	.0458	.0492
60.000		.4910	.4129	.4129	.4129	.2911		.2826		.1878					
70.000		.4714	.3374	.3374	.3374	.3394		.2828		.2493	.0911	.0799	.0401	.0411	.0411
90.000	.7322	.6719	.5500	.5500	.5500	.5549		.2828		.2759	.1518	.1304	.0411	.0411	.0411

ORIGINAL PAGE IS
OF POOR QUALITY

ANC97-710 1A14 Q1-T12-S12M2-A711 ORB. FUSELAGE 0803012)

ALPHA(1) = -7.000 BETA(3) = -.030

SECTION 1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3790	.4900	.5760
PMI															
120.000			.0672	.4984	.3979	.3583		.3417		.3659	.1046	-.0981	.0047	.0145	
140.000										.2325					
160.000			.0792	.5062	.5085	.4506				.1854	-.0447	.0089	.0185	.0566	
181.000									.9679						
196.000								1.0350							
182.000								1.1720		.1560	-.0327	.0291	.0449	.0965	
165.000								1.4029							
169.000						1.0880									
174.000					.9311	.9384	.4892	1.4290		.0185	-.0229	.0143	.0595	.0522	
189.000	1.7470	1.0540	.6609	.9011	.9384	.4892									
X/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					
PMI															
.0000	.0662	.0463	.2444	.3179	-.1116	-.2008	-.1949		-.1909	-.1627					
40.000	.0296	.0890	.3275	-.1194	-.2122	-.1532	-.2040		.0000	-.1654					
70.000	.0741	.0645	-.0706	.0254	.0674	.0689	.0502								
90.000	.0743	.0581	.0019	.1256	.0883	.0436	.0166								
105.000		.0642	.1023	.0846	.0213	.0066		-.0136							
110.000		.0453	.0706	.2272	.2412	-.0101	.0252	.0384	.0131						
120.000			.4546	.4774	.0402	.0974	.0952								
135.000		.0453	.0450	.2172	.4514	.2156	.1955	.1001							
165.000	.0458	.0333		.3928	.2500	.1143									
180.000	.0463	.0435	.0276	.4229											

ALPHA(2) = -6.000 BETA(4) = 3.900

SECTION 1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3790	.4900	.5760
PMI															
.0000	.7223	.4910	.6371	.2644	.0000			.0768		.0627	.0986	.0082	.0733	.0504	.0240
20.000		.4673	.6313	.2756	.3370			-.0148		.1165					
40.000		.3996	.9973	.3463	.1866			.0371		.0749	.0766	.0552	.0326	.1036	.0994
55.000		.3788	.5131	.3743	.1478			.2292		.1219					
70.000		.4377	.3384	.3711	.2045			.1414		.2156	.0091	-.0247	-.0026	.0049	
90.000	.6584	.4841	.3041	.2693	.2502			.1632		.1771	.342	.006	.0001	-.0016	
120.000		.9646	.4179	.3225	.2900			.4607		.07	.0112	.0001	.0001	.0000	
140.000										.1444					
150.000		.8080	.5480	.4699	.4047					.1274	.0776	.0226	.0149	.0110	
151.000								1.0370	.7907						
158.000															
169.000								1.0750							

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 23

ARC97-716 1A14 Q1+712+512N25+7111 ORB. FUSELAGE

(R03812)

ALPHA(1) = -8.000 BETA(4) = 3.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1120 .1590 .070 .1760 .2030 .2520 .3010 .3790 .4990 .5760

P/N

165.000

169.000

174.000

180.000

X/LB

.6530

.7300

.7810

.8230

.8620

.9230

.9630

1.0020

1.0210

1.0460

1.0660

1.0860

1.1060

1.1260

1.1460

1.1660

1.1860

1.2060

1.2260

1.2460

1.2660

1.2860

1.3060

1.3260

1.3460

1.3660

1.3860

1.4060

1.4260

1.4460

1.4660

1.4860

1.5060

1.5260

1.5460

1.5660

1.5860

1.6060

1.6260

1.6460

1.6660

1.6860

1.7060

1.7260

1.7460

1.7660

1.7860

1.8060

1.8260

1.8460

1.8660

1.8860

1.9060

ALPHA(1) = -8.000 BETA(5) = 7.860

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1120 .1590 .1670 .1760 .2030 .2520 .3010 .3790 .4990 .5760

P/N

165.000

169.000

174.000

180.000

185.000

190.000

195.000

200.000

205.000

210.000

215.000

220.000

225.000

230.000

235.000

240.000

245.000

250.000

255.000

260.000

265.000

270.000

275.000

280.000

285.000

290.000

295.000

300.000

(003512)

ARC87-718 1A14 Q1-T12-S12MERAT11 CR8. FUSELAGE

ALPHA(1) = -0.030 BETA(1) = 7.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
Phi										
.000	-.0009	.0277	.1426	.1043	-.1809	-.2196	-.1639		-.1573	-.1419
20.000	.0126	.0216	.2846	-.1602	-.2555	-.2054	-.1622		.0000	-.1211
40.000	.0474	.0221	-.0246	-.0432	.0664	.0167	-.0021			
60.000	.0348	.0189	-.0344	.0584	-.0207	-.0509	-.0624			
80.000			.0364	.0501	-.0292	-.0456	-.0363			
100.000								-.0601		
120.000	-.0011	.0162	.0762	.0247	-.1466	-.0951	-.1004	-.1345		
135.000			.2343	.3542	-.0314	-.0788	-.1023			
150.000	-.0333	-.0453	.1786	.3444	.1402	.0328	-.0105			
165.000	-.0284		.1749		.1456	.1065	.0054			
180.000	-.0033	-.0065	-.0234	.2355						

ALPHA(2) = -4.030 BETA(2) = -7.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3760	.4990	.5760
Phi															
.000	1.3440	.7350	.4180	.7237	.3591	.0000		.1662		.2429	.1370	.1282	-.0150	.0433	.0666
20.000			.4275	.8020	.4995	.5255		.2023		.2493		.0335	-.0230	.0933	.1066
40.000			.6194	.8812	.7029	.3400		.3175		.0335	.0576	-.0230	.0933	.1066	.1040
55.000			.7514	.9332	.7678	.5132		.3608		.2890		.0690	.0873	.0634	.0490
70.000			.8204	.7697	.7377	.5310		.3752		.3062	.0690	.0873	.0634	.0490	.0490
90.000	1.0330		.6232	.6786	.6804	.5663		.4141		.3162	.1436	.0871	.0537	.0293	.0293
120.000			.8098	.6062	.5496	.5517		.4666		.4962	.1669	-.0133	-.0266	-.0074	
140.000										.4935					
150.000			.6903	.5333	.4642	.4703			1.1010	.3167	-.0750	-.0480	-.0310	-.0266	
151.000								1.2360							
156.000									1.1860						
162.000										.0981	-.0359	-.0467	-.0585	-.0293	
165.000															
169.000															
174.000															
180.000	1.3440	.9321	.5646	.4324	.4016	.3854	1.0210	1.1000		.0226	-.0584	-.0615	-.0450	-.0356	
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400					
Phi															
.000	.0745	.0879	.8777	.4375	-.1495	-.2198	-.2046		-.1785	-.1597					
20.000	.0826	.1708	.4936	-.0267	-.1537	-.1863	-.1480		.0000	-.2066					
40.000	.0748	.0818	-.0012	-.0162	.0735	.0737	.0845								
60.000	.0745	.0593	.0005	.1329	.1040	.0691	.0459								
80.000			.0105	.1614	.1243	.0525	.0303								
100.000								-.0106							



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83812)

ARC97-716 1A14 Q1+T12+S12NE5+AT11 CR8. FUSELAGE

ALPHA(1) 2 = -4.030 BETA(1) = -7.980

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Phi										
120.000	.0066	.0125	.2135	.4465	.0921	.0605	.0394	.0119		
135.000		.2276	.3224	-.0064	.0012	.1393				
150.000	-.0090	-.0053	.0662	.0444	.0368	.0327	.2080			
165.000	-.0293		-.0166		.4029	.3047	.1825			
180.000	-.0505	-.0550	-.0279	.1341						

ALPHA(1) 2 = -4.030 BETA(1) = -7.980

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3780	.4990	.5760
Phi															
20.000	1.5640	.7168	.4064	.8017	.3687	.0000		.1579		.2094	.0708	.0970	-.0232	.0493	.0443
40.000		.3723	.6268	.5090	.4613			.2297		.2175					
60.000		.4766	.6134	.6640	.2965			.2499		.0351	.0205	-.0432	.0277	.0390	.0293
80.000		.5827	.5247	.6940	.4051			.3177		.2183					
100.000		.6527	.4491	.5956	.4819			.2975		.2465	.0484	.0341	.0279	-.0121	
120.000		.6593	.6705	.4662	.4383	.4863		.3482		.2640	.0873	.0385	.0004	-.0160	
140.000		.6988	.5191	.4124	.4317			.5168		.4154	.1274	-.0730	-.0372	-.0119	
160.000										.3969					
180.000		.6410	.5151	.4447	.4056				.9811	.2479	-.0590	-.0482	-.0288	.0011	
200.000								1.0160							
220.000									1.1520	.1274	-.0587	-.0492	-.0224	-.0025	
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

X/LB	.6930	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Phi										
20.000	.0141	.0375	.2125	.3793	-.1313	-.2176	-.2127			
40.000	.0136	.0367	.4395	-.0570	-.1710	-.1942	-.1718			
60.000	.0372	.0166	-.0332	.0012	.0467	.0462	.0331			
80.000	.0445	.0219	-.0290	.0976	.0735	.0423	.0092			
100.000		-.0059		.0891	.0864	.0177	-.0039			
120.000										
140.000	.0211	.0416	.2249	.3299	.0336	.0226	.0039			
160.000		.3072	.3905	-.0016	.0136	.1130				
180.000	-.0054	.0202	.1400	.1911	.1176	.2046	.1309			
200.000	-.0052	.0346		.3769	.2542	.0999				
220.000	-.0052	-.0091	.0119	.2666						

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1-T12-S12N25+AT11 CR8. FUSELAGE (083512)

ALPHA(1,2) = -4.040 BETA(1,3) = -.060

SECTION 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1678	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PM1																
.000	1.6300	.7036	.4445	.6712	1.0000	.0000	.0000		-.0433		.1307	.0496	-.0100	-.0579	.0714	-.0340
20.000			.4396	.7176	.9155	.6946			-.0113		.1790					
40.000			.3616	.6703	.8466	1.0070			.1142		-.0263	-.0112	-.0100	-.0144	-.0004	-.0124
55.000			.4437	.6810	.8476	.9784			.2407		.1539					
70.000			.5074	.9401	.8639	.3510			.2097		.1829	.0125	-.0149	-.0349	-.0697	
90.000		.7360	.5307	.9437	.9772	.2826			.2644		.2076	.0366	-.0173	-.0584	-.0626	
120.000			.5728	.6806	.9597	.3067			.4581		.3441	.0672	-.1367	-.0639	-.0362	
140.000											.2603					
150.000			.9630	.6351	.6921	.3463				.6566	.1485	-.0705	-.0654	-.0460	-.0057	
151.000									.8755							
156.000									1.0940							
162.000											.0999	-.0947	-.0312	-.0186	-.0090	
165.000																
169.000																
174.000	1.6300	.9080	.5615	.8343	.8776	.3768		.9230	1.2490		-.0229	-.0749	-.0465	.0001	-.0615	
180.000		.6530	.7910	.8230	.8620	.9230	.9630	1.0.20	1.0210	1.0480						
X/LB																

SECTION 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1678	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PM1																
.000																
40.000																
70.000																
90.000																
105.000																
110.000																
120.000																
135.000																
150.000																
165.000																
180.000																

ALPHA(1,2) = -4.030 BETA(1,4) = 3.630

SECTION 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PM1																
.0000	1.5940	.6936	.9403	.5461	.1513	.0000			.0409		.0200	.0497	-.0106	-.0598	.0255	.0122
20.000			.7630	.5414	.1833	.2561			-.0731		.1799					
40.000			.5119	.5173	.2636	.1508			.0627		.0407	.0576	.0066	-.0266	.0561	.0507
55.000			.4429	.4552	.3071	.0828			.1942		.0752					
70.000			.3965	.3932	.3097	.1504			.1008		.1432	-.0280	-.0447	-.0270	-.0536	
90.000		.9957	.4176	.2988	.2684	.2067			.1205		.1233	.0036	-.0487	-.0694	-.0519	



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 29

ARC97-716 1A14 Q1-T12-S12M2-AT11 CRB. FUSELAGE (R83812)

ALPHAO(2) = -4.050 BETAO (4) = 3.030

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780
PW															
120.000			.4800	.3366	.2540	.2561		.3934		.1976	-.0130	-.1623	-.0565	-.0497	
140.000										.1203					
150.000			.5045	.4343	.3653	.3128				.0904	-.1119	-.0479	-.0312	-.0182	
151.000								.6986							
156.000									.9944						
162.000										.0453	-.0681	-.0410	-.0066	-.0134	
165.000															
169.000															
174.000							1.0470								
180.000	1.5940	.9108	.5588	.4738	.4315	.3956	1.2420			-.0206	-.0996	-.0162	-.0046	-.0099	
X/LB	.6330	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PW

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780
PW															
120.000			.0036	.0301	.1518	.1303	-.1305	-.2235	-.2027						
140.000			.0271	.0563	.2748	-.1637	-.2381	-.1855	-.2248						
150.000			.0046	.0289	-.0639	-.0754	-.0127	-.0591	-.0332						
151.000			.0048	-.0008	-.0567	.0000	-.0117	-.0322	-.0496						
156.000					.0028	.0197	-.0099	-.0428	-.0321						
162.000															
165.000															
169.000															
174.000															
180.000	-.0436	-.0102	.0944	.0202	-.0901	-.0791	-.0470	-.0652							
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780

ALPHAO(2) = -4.070 BETAO (5) = 7.830

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780
PW															
120.000			.7432	.3337	1.1270	.0500		.1518		-.0030	-.0617	.0288	-.0352	-.0527	-.0863
140.000			.6908	.2938	1.1320	1.0600		.0069		.0007					
150.000			.4875	.9745	1.1350	1.0900		-.0559		.0066	.0526	-.0324	-.0540	-.0423	-.0706
151.000															
156.000			.3739	.9942	1.0910	1.1670		.0342		-.0384					
162.000			.3333	1.0070	1.0690	.0674		.0649		.0256	-.0731	-.0569	-.0748	-.0594	
165.000			.3217	1.0410	1.0860	.1067		.0430		.0438	-.0972	-.0919	-.0919	-.0575	
169.000										.1236	-.0734	-.1967	-.1467	-.0770	
174.000										.0359					
180.000	.4870	.3763	1.0110	1.0790	.1560			.2842		.0241	-.1351	-.0798	-.0535	-.0632	
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780

.5932

.9171

.9400

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ARC97-710 1A14 CR+112+312MS+AT11 CR8. FUSELAGE (N03812)

ALPHA(2) = -4.070 BETA(3) = 7.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0250 .0470 .0700 .1120 .1500 .1670 .1700 .2050 .2520 .3010 .3750 .4990 .5760

Phi

165.000 1.1430 -0.0554 -0.1172 -0.0496 -0.0453 -0.0572

169.000

174.000 .0319 1.1470 -0.0047 -0.1095 -0.0693 -0.0461 -0.0666

180.000

X/LB .6330 .7300 .7810 .8250 .8820 .9230 .9630 1.0020 1.0210 1.0480

Phi

.000 -0.0404 -0.0909 .1034 .0698 -0.1755 -0.2285 -0.1995 -0.1551 -0.1243

40.000

70.000 -0.0371 -0.0310 .2396 -0.1728 -0.2631 -0.2086 -0.1939 -0.0000 -0.1174

90.000

105.000 -0.0392 -0.0307 -0.0649 -0.0875 -0.0032 -0.0366 -0.0565 -0.0911

110.000

120.000 -0.0429 -0.0451 -0.0720 -0.0283 -0.0496 -0.0820 -0.0911 -0.1022

135.000

150.000 -0.0742 -0.0614 .0236 -0.0064 -0.1590 -0.1260 -0.1130 -0.1327

165.000

180.000 -0.1172 -0.0965 .1552 .2845 -0.0796 -0.1130 -0.1319

ALPHA(3) = -.800 BETA(1) = -7.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0080 .0250 .0470 .0700 .1120 .1500 .1670 .1700 .2050 .2520 .3010 .3750 .4990 .5760

Phi

.000 1.4890 .7024 .3975 .6943 .3800 .0000 .1651 .1331 .1102 -0.0587 .0016 .0340

20.000

40.000 .3911 .7403 .5454 .4118 .1872 .2297 .0134 .0281 -0.0361 -0.0239 .0639 .1061

55.000

70.000 .5719 .8216 .7217 .5777 .3022 .0134 .0281 -0.0361 -0.0239 .0639 .1061

90.000

105.000 .7007 .8862 .7827 .6816 .2889 .2368 .0332 .0437 .0303 -0.0017

120.000

135.000 .7556 .8021 .6921 .4859 .3324 .2290 .0332 .0437 .0303 -0.0017

150.000

165.000 .9456 .7499 .8655 .6086 .4960 .2452 .0822 .0408 -0.0106 -0.0127

180.000

.7108 .5395 .4833 .4325 .3488 .4197 .1462 -0.0527 -0.0830 -0.0905

140.000

151.000 .5800 .4885 .3787 .3516 .4281 .3050 -0.1059 -0.1250 -0.0967 -0.1013

156.000

162.000 .9451 1.0640 .0455 -0.0874 -0.1070 -0.1195 -0.0976

169.000

174.000 1.0660 .0881 .0230 .0190 -0.1317 -0.1255 -0.1060 -0.0796

180.000

.6330 .7300 .7810 .8250 .8820 .9230 .9630 1.0020 1.0210 1.0480

X/LB

DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 01-712-SIGNE-AT11 ORB. FUSELAGE (M83812)

ALPHA(3) = -.200 BETA(1) = -7.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Phi										
.000	.0847	.0494	.3023	.4090	-.1774	-.2262	-.2166		-.1887	-.1818
20.000	.0945	.2365	.5189	.0179		-.1315	-.1486		.0000	-.2259
40.000	.0440	.0471	-.0266	-.0465	.56	.0447	.0191			
60.000	.0435	.0172	-.0276	.0484	.0872	.0390	.0179			
80.000		-.0236		.1461	.1154	.0256	.0037			
100.000							-.0402			
120.000	-.0809	-.0835	.0953	.3523	.0997	.0363	.0099			
140.000		.0879	.2036	-.0599	-.0346	.0697				
160.000	-.0604	-.0804	-.0148	-.0465	-.0290	-.0624	.0941			
180.000	-.0813	-.0639	-.0639	.2837	.2387	.1430				
200.000	-.0951	-.0894	.0186	.0749						

ALPHA(3) = -.200 BETA(2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.4640	.6752	.6210	.6477	1.0020	.0000		.1234		.2234	.0604	.0325	-.0791	-.0189	.0235
20.000		.5969	.5923	.9272	.8634			.2028		.1859					
40.000		.5805	.6378	.7960	1.0140			.2556		-.0212	.0003	-.0674	-.0104	.0106	.0181
60.000		.5844	.7433	.7371	.9980			.2639		.1825					
80.000		.6131	.8233	.7706	.4182			.2612		.2048	.0056	-.0112	-.0282	-.0326	
100.000	.7836	.6116	.8568	.8602	.4385			.2985		.1997	.0528	-.0049	-.0416	-.0584	
120.000		.6111	.8574	.9355	.3689			.3532		.3614	.0943	-.0961	-.1036	-.0869	
140.000										.3472					
160.000		.5353	.8768	.9357	.3215					.1994	-.1075	-.1116	-.0974	-.0629	
180.000								.9459							
200.000								1.0290							
220.000										.0796	-.1012	-.1081	-.0856	-.0624	
240.000	1.4640	.6129	.4800	.9149	.9539	.2894									
260.000						.7608									
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
Phi										
.000	.0301	.0938	.2715	.3610	-.1557	-.2281	-.2163		-.1746	-.1405
20.000	.0247	.0704	.4841	-.0337	-.1638	-.1992	-.1603		.0000	-.2378
40.000	-.0015	.0242	-.0711	-.0548	-.0022	.0095	-.0034			
60.000	-.0005	-.0144	-.0599	.0601	.0298	.0021	-.0189			
80.000		-.0418	.0697	.0342	-.0128	-.0338				
100.000										
120.000										
140.000										
160.000										
180.000										
200.000										
220.000										
240.000										
260.000										
280.000										
300.000										
320.000										
340.000										
360.000										
380.000										
400.000										
420.000										
440.000										
460.000										
480.000										
500.000										
520.000										
540.000										
560.000										
580.000										
600.000										
620.000										
640.000										
660.000										
680.000										
700.000										
720.000										
740.000										
760.000										
780.000										
800.000										
820.000										
840.000										
860.000										
880.000										
900.000										
920.000										
940.000										
960.000										
980.000										
1000.000										

ORIGINAL PAGE IS
OF POOR QUALITY

(R03812)

ARCS7-716 1A14 Q1+712+312M3+AT11 C.B. FUSELAGE

ALPHA(3) = -.200 BETA(2) = -4.031

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .6530 .7300 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

120.000 -.0374 -.0115 .1467 .3026 .0107 -.0054 -.0291 -.0532
 135.000 .1912 .3156 -.0443 -.0402 -.0474
 150.000 -.0366 -.0203 .0767 .1317 .1340 .0610
 165.000 -.0410 .0283 .2813 .1864 .0577
 180.000 -.0432 -.0442 .0677 .1736

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0000 .0230 .0470 .0700 .1120 .1590 .1670 .1780 .2050 .2520 .3010 .3780 .4980 .5760

PHI

.000 1.5160 .6664 .7681 .5178 1.1090 .0000 -.0926 .0889 .0391 -.0251 -.1086 .0410 -.4759
 20.000 .6676 .5642 1.0080 .9346 -.0656
 40.000 .7117 .7347 .9110 1.0620 .1039
 55.000 .4963 .7957 .8947 1.0060 .1406
 70.000 .4666 .8693 .9706 .3045 .1584
 90.000 .6919 .4777 .9390 .9581 .3141 .2081
 120.000 .4987 .9295 .5972 .2665 .4082
 140.000 .4698 .9116 .9610 .2621
 151.000 .7736
 156.000 .7561
 162.000 .9672
 165.000 .0641 -.1200 -.0903 -.0770 -.0628
 169.000 .0545 -.1127 -.0903 -.0616 -.3095
 174.000 1.0100
 180.000 1.5160 .7683 .4561 .9114 .9313 .2764 .7858
 1.0010
 1.0910
 1.0020 1.0210 1.0480

X/LB .6530 .7300 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000 -.4172 -.3166 -.1239 .2918 -.1375 -.2181 -.2132
 40.000 -.4567 -.2681 .0572 -.0468 -.1950 -.1501 -.1949
 70.000 -.3099 -.3174 -.0813 -.0424 -.0316 -.0286 -.0450
 90.000 -.4899 -.5161 -.0768 .0038 .0012 -.0318 -.0370
 105.000 -.0348 .0053 .0053 -.0440 -.0665
 110.000 -.0970
 120.000 -.3222 -.4841 .1234 .1633 -.0272 -.0448 -.0520 -.0635
 135.000 .2440 .3208 -.0367 .0036 .0283
 150.000 -.5873 -.5873 .0980 .2486 .0760 .0787 .0163
 165.000 -.5319 -.0485 .2334 .1246 .0129
 180.000 -.5311 -.5356 -.0312 .2482



ARC97-716 1A14 OR-T12+812NES+AT11 OR8. FUSELAGE

(0838812)

ALPHA(3) = -.210 BETA(4) = 3.880

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.4740	.7882	.7714	.3988	.1297	.0000		.0328		.0396	.0265	-.0003	-.0772	-.0041	-.0099
20.000		.7047	.4144	.1186	.1713			-.1349		.1781					
40.000		.5770	.4327	.2090	.1191			.0411		.0370	.0319	-.0239	-.0743	.0283	.0323
55.000			.4610	.3798	.2570	.0812		.1471	.0338						
70.000			.4013	.3415	.2529	.1126		.1449	.0981	-.0516	-.0616	-.0696	-.1043		
90.000		.5284	.3739	.2908	.2323	.1681		.1488	.1351	-.0171	-.0642	-.0934	-.0937		
120.000			.4013	.2879	.2191	.2035		.3129	.1927	.0096	-.1633	-.0937	-.0742		
140.000									.0799						
160.000			.4083	.3474	.2908	.2428			.0358	-.1344	-.0868	-.0597	-.0487		
180.000								.7821	.6004						
198.000									.6808						
199.000										-.0005	-.1169	-.0804	-.0440	-.0474	
174.000															
180.000	1.4740	.8012	.4552	.3820	.3418	.3066	.0735	1.0750		-.0480	-.1247	-.0619	-.0528	-.0386	
X/LB	.6330	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

Phi

.000	.0201	.0313	.1604	.1348	-.1510	-.2285	-.2075		-.1419	-.1148					
40.000	.0392	.0570	.2669	-.1430	-.2089	-.1766	-.2163		.0000	-.1140					
70.000	-.0392	-.0053	-.0861	-.0815	-.0476	-.0442	-.0625								
90.000	-.0306	-.0411	-.0841	-.0206	-.0196	-.0318	-.0684								
105.000			-.0301	-.0236	-.0349	-.0613	-.0715								
110.000									-.0945						
120.000	-.0732	-.0360	.0708	.0704	-.0949	-.0859	-.0701	-.0794							
135.000		.2475	.3146	.3146	-.0523	-.0354	-.0547								
150.000	-.0301	-.0542	.1146	.2954	.0785	.0089	-.0469								
185.000	-.0508	.0721		.1294	.0560	-.0259									
180.000	-.0401	-.0406	.0302	.2117											

ALPHA(3) = -.220 BETA(4) = 7.860

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
Phi															
.000	1.4530	.9690	.6531	.1727	.0557	.0000		.0904		-.0369	-.0911	-.0045	-.0621	-.0785	-.0803
20.000		.5805	.1904	.0569	.2397			-.0369		-.0137					
40.000		.4398	.1921	.0574	.1631			-.0622		.0572	.0223	-.0706	-.0551	-.0700	-.0630
55.000			.3424	.1894	.0954	.0451		-.0012		-.0170					
70.000			.3123	.2024	.1217	.0379		.0430	.0735	-.0777	-.0745	-.0951	-.0951	-.1065	
90.000		.4139	.3009	.1977	.1187	.0838		.0208	.0340	-.0897	-.1107	-.1236	-.1072		

ARCST-716 1A14 Q1+T12+312M5+AT11 CR8. FUSELAGE (R33B12)

ALPHA(1) = -.020 BETA(1) = 7.000

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.5780
Phi															
120.000			.3094	.2181	.1420	.1139		.2215		.0716	-.0899	-.2162	-.1223	-.1042	
140.000										.0111					
150.000			.3444	.2978	.2431	.1958				-.0035	-.15.5	-.1203	-.0985	-.1189	
151.000								.4424							
156.000								.6959							
162.000								.6414							
165.000										-.0760	-.1443	-.0993	-.0943	-.1003	
169.000								.9120							
174.000						.6752									
180.000	1.4530	.7488	.4325	.3641	.3194	.3012		.9467		-.0340	-.1302	-.1189	-.0946	-.0774	
X/L	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
Phi															
.0000	-.0156	-.0456	.1036	.0980	-.1802	-.2237	-.1834		-.1072	-.0812					
40.000	-.0322	-.0009	.2614	-.1616	-.2327	-.1871	-.1712		.0000	-.0927					
70.000	-.0456	-.0009	-.0900	-.1132	-.0472	-.0642	-.0789								
90.000	-.0449	-.0449	-.0980	-.0546	-.0593	-.0928	-.1016								
105.000			-.0345	-.0276	-.0730	-.0955	-.0972								
110.000								-.1184							
120.000	-.0813	-.0591	-.0093	-.0262	-.1585	-.1360	-.1201	-.1310							
135.000			.0836	.2293	-.1016	-.1262	-.1451								
150.000	-.0608	-.0868	.0639	.1833	-.0594	-.0368	-.0981								
165.000	-.0982		.0601	.0193	-.0231	-.0634									
180.000	-.0945	-.0806	.0176	.1188											

ALPHA(4) = 3.820 BETA(1) = -6.020

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.5780
Phi															
.0000	1.3330	.6927	.5907	.5763	.9740	.0000		.1110		.1049	.0318	.0839	-.0786	-.0166	.0407
20.000		.7000		.6908	.8206	1.0240		.0811		.1980					
40.000			.8703	.5970	.6607	.9278		.2311		.0756	-.0357	-.0579	.0491	.0375	.0710
55.000			.9147	.5262	.6485	.8356		.2517		.2135					
70.000			.8532	.5831	.6983	.4623		.2836		.1955	.0166	.0180	.0029	.0064	
90.000	.8895	.7684	.6562	.7599	.4463			.3073		.1936	.0320	.0246	-.0185	-.0158	
120.000		.6516	.7937	.8671	.3578			.2823		.3306	.1098	-.0712	-.1282	-.1691	
140.000										.3523					
150.000		.4832	.9360	.9725	.2733			.8261		.2314	-.1367	-.1754	-.1467	-.1575	
151.000								.8785							
156.000															
162.000								.9133							



ARC97-710 1A14 01-712-512N23-AT11 CRB. FUSELAGE

(R03012)

ALPHA(4) = 3.951 BETA(1) = -8.020

DEPENDENT VARIABLE CP
SECTION (110)BITER PUSLAGE[illegible]

x/18	.6530	.7300	.7910	.8230	.8820	.9330	1.0020	1.0210	1.0480
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[illegible]
$$\text{ALPHA}(4) = 3.937 \quad \text{BETA}(2) = -4.040$$

SECTION (1) CRITER FUSelage

X/LB	.0000	.0740	.0830	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3760	.4960	.5760
PHI															
.000	1.4390	.6217	.7344	.5673	.1324	.0000	.0669		.1469	.0745	.0460	-.0832	-.0124	.0310	
20.000		.7522	.6640	.2579	.3065		.0066		.1645						
40.000		.7605	.7605	.4595	.5248		.2359		-.0335	-.0147	-.0835	-.0124	.0019	.0200	
55.000		.7177	.5626	.7403	.3282		.1907		.1391						
70.000		.6478	.6240	.5271	.3562		.2188		.1201	-.0362	-.0255	-.0319	-.0413		
90.000	.7295	.5991	.5110	.4560	.3564		.2395		.1367	.0016	-.0210	-.0494	-.0714		

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TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A148 Q4712-SUMMER-AT11 ORB. FUSELAGE

(083812)

ALPHA(1) = 3.930 BETA(2) = -4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PHI										
.000	.0533	.1053	.3131	.3818	-.1482	-.2305	-.2098		-.1212	-.1039
40.000	.0484	.1821	.5458	-.0176	-.1448	-.1582	-.1689		.0000	-.2262
70.000	-.0303	.0157	-.0945	-.0986	-.0349	-.0282	-.0457			
90.000	-.0306	-.0467	-.0930	-.0083	.0178	-.0201	-.0467			
105.000		-.0811	.0565	.0474	-.0272	-.0570				
110.000							-.0966			
120.000	-.1010	-.0844	.0670	.2582	.0098	-.0303	-.0512			
135.000			.1095	.1920	-.0787	-.0856	-.0383			
150.000	-.0704	-.0526	.0486	.0389	-.0482	.0565	.0303			
165.000	-.0716	.0501		.1591	.1056	.0190				
180.000	-.0714	-.0653	.0557	.1298						

ALPHA(1) = 3.930 BETA(3) = -.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
.000	1.4180	.9593	.8212	.3548	.1138	.0000		-.0207	.1256	.0293	-.0333	-.0891	-.0236	-.0178	
20.000		.7603	.4610	.1244	.2825			-.0599	.2138						
40.000		.6034	.5276	.3075	.1180			.1189	-.0879	-.0228	-.0043	-.0355	-.0280	.0305	
55.000		.5974	.4597	.3749	.1974			.1752	.0775						
70.000		.5456	.4108	.3137	.2419			.1502	.1012	-.0616	-.0740	-.0360	-.1074		
80.000	.6089	.4912	.3628	.2842	.2823			.1701	.1048	-.0194	-.0587	-.0915	-.1123		
100.000		.4439	.3321	.2443	.2539			.2718	.2324	.0132	-.1390	-.1397	-.0962		
120.000									.2178						
140.000		.3797	.3019	.2507	.2229				.1097	-.1310	-.1353	-.1066	-.0747		
155.000								.7274							
165.000															
180.000								.8374							
195.000										.0239	-.1368	-.1064	-.0668	-.0686	
210.000															
225.000	1.4180	.6515	.3533	.2888	.2337	.2233				-.0732	-.1315	-.0891	-.0747	-.0530	
240.000								.9181							
255.000															
270.000	.6930	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400					
PHI															
.000	.0871	.0717	.2252	.2427	-.1386	-.2082	-.1917		-.1125	-.1037					
40.000	.0863	.1830	.3487	.0049	-.1762	-.1824	-.1805		.0000	-.1598					
70.000	-.0330	.0224	-.1025	-.0730	-.0632	-.0611	-.0721								
90.000	-.0408	-.0528	-.1008	-.0156	-.0250	-.0562	-.0807								
105.000			-.0308	-.0130	-.0169	-.0641	-.0860								
110.000								-.1140							



ARC97-716 1A14 O1+T12+S12N25+AT11 ORB. FUSELAGE (R03812)

SECTION (1) ORBITER FUSELAGE

$\lambda \mu$	.6536	.7500	.7610	.8230	.8620	.9230	.9830	1.0020	1.0210	1.0460
F_{41}										
120.000	-.0542	-.0369	.0293	.1105	-.0332	-.0623	-.0719	-.0619		
135.000			.1237	.1993	-.0555	-.0098	-.0643			
150.000	-.0618	-.0509	.0763	.1795	.0414	.0346	-.0227			
165.000	-.0818		-.0222	.1594	.0715		-.0166			
180.000	-.0616	-.0340	-.0459	.2039						

ALPHA(4) = 3.943 BETA(4) = 3.860E

SECTION () ORBITER FUSELAGE	DEPENDENT VARIABLE CP
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
34	0.0000
35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
40	0.0000
41	0.0000
42	0.0000
43	0.0000
44	0.0000
45	0.0000
46	0.0000
47	0.0000
48	0.0000
49	0.0000
50	0.0000
51	0.0000
52	0.0000
53	0.0000
54	0.0000
55	0.0000
56	0.0000
57	0.0000
58	0.0000
59	0.0000
60	0.0000
61	0.0000
62	0.0000
63	0.0000
64	0.0000
65	0.0000
66	0.0000
67	0.0000
68	0.0000
69	0.0000
70	0.0000
71	0.0000
72	0.0000
73	0.0000
74	0.0000
75	0.0000
76	0.0000
77	0.0000
78	0.0000
79	0.0000
80	0.0000
81	0.0000
82	0.0000
83	0.0000
84	0.0000
85	0.0000
86	0.0000
87	0.0000
88	0.0000
89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

[illegible]

(008812)

ARC97-716 1A14 ORBITER FUSELAGE

ALPHA(4) = 3.940 BETA(5) = 7.820

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1560	.1670	.1760	.2030	.2320	.3010	.3760	.4990	.5760
PMI															
.000	1.3120	1.0720	.9569	.9377	1.2180	.0000	.0240			-.0934	-.0977	-.0319	-.0692	-.1087	-.2382
20.000			.4916	-.0009	1.2180	.9999	-.0693			-.0296					
40.000			.3662	1.1750	1.1940	1.0640	-.1224			.0497	.0003	-.0979	-.1295	-.0401	-.1703
55.000			.2692	1.1460	1.1920	1.1560	-.0113			-.0541					
70.000			.2532	1.1210	1.1790	.3060	.0114			.0141	-.1106	-.1016	-.1298	-.1406	
90.000		.3630	.2639	1.0900	1.1580	-.0075	.11			.1048	-.0660	-.1406	-.1569	-.1324	
120.000			.2473	1.0700	1.1250	.0460	.1371			.0200	-.1069	-.2072	-.1451	-.1431	
140.000										-.0273					
150.000			.2439	1.0350	1.0660	.1124				-.0407	-.1769	-.1647	-.1418	-.1266	
151.000								.9430	.3053						
158.000															
162.000															
169.000															
174.000		.5794	.3366	.6970	1.0190	.1969	.7225								
180.000	1.3120	.5794	.3366	.6970	1.0190	.1969	.5105								
X/LB	.6330	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0460					
PMI															
.000	-.1623	-.2079	-.0161	.1163	-.1661	-.2167	-.1996			-.0531	-.0906				
40.000	-.1394	.0009	.1611	-.1132	-.1773	-.1679	-.2143			.0000	-.0662				
70.000	-.2226	-.1466	-.1003	-.1100	-.0659	-.0774	-.0962								
80.000	-.2177	-.2222	-.0991	-.0593	-.0647	-.0994	-.1052								
103.000			-.0300	-.0517	-.0811	-.1040	-.1064								
110.000															
120.000	-.2663	-.2260	.0012	-.0315	-.1301	-.1136	-.1099								
135.000			.0153	.1702	-.0947	-.1155	-.1336								
150.000	-.2761	-.2719	.0031	.0765	-.0145	-.0837	-.1341								
165.000	-.2737		.0024		-.0462	-.0772	-.1169								
180.000	-.2726	-.2767	-.0117	.0556											

ALPHA(5) = 6.090 BETA(1) = -6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1560	.1670	.1760	.2030	.2320	.3010	.3760	.4950	.5760
PMI															
.000	1.8020	.6591	.7339	.9134	1.0320	.0000	.0540			.0346	.0201	.0406	-.0200	.0005	.0423
20.000			.0171	.6299	.6819	1.1250	.0339			.1222					
40.000			.9499	.9668	.6789	.9927	.0576			.0696	-.0216	-.0164	.0590	.0365	.0592
55.000			.9543	.9373	.6262	.6910	.1934			.1442					
70.000			.8824	.9642	.7091	.4090	.2323			.1495	-.0337	-.0316	-.0070	.0393	
90.000		.6769	.7696	.6742	.7675	.3754	.2690			.1641	.0031	-.0315	-.0147	.0123	



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083812)

ARC97-716 1A14 Q+T18+312M25+AT11 ORB. FUSELAGE

ALPHAO(5) = 8.000 BETA0(1) = -8.070															
SECTION (1) ORBITER FUSELAGE															
DEPENDENT VARIABLE CP															
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI			.6022	.8376	.9423	.2561		.2103		.2496	.0793	-.0800	-.1679	-.1299	
120.000										.2762					
140.000										.1936	-.1634	-.1972	-.1942	-.1969	
150.000			.4107	.9813	1.0290	.1776									
151.000								.6802							
156.000									.7317	-.0442	-.1573	-.1747	-.1644	-.1647	
162.000															
165.000								.7539							
169.000							.5545								
174.000								.5776		-.0693	-.1766	-.1862	-.1772	-.1391	
180.000	1.8000	.9546	.2734	1.0370	1.0840	.1334									
X/LB	.6330	.7500	.7610	.6230	.8620	.9230	.9630	1.0020	1.0210	1.0400					
PHI															
.0000		.1143	.1477	.3691	-.1747	-.2312	-.2254		-.1719	-.1110					
40.000		.0776	.3186	.6722	.1870	-.0641	-.2063		.0000	-.2186					
70.000		.0266	.0991	-.0566	-.0534	-.0246	-.0446								
90.000		.0240	-.0126	-.0612	-.0927	.0266	-.0521								
105.000				-.0666	.0613	.0462	-.0616								
110.000								-.0995							
120.000								-.0971							
135.000	-.1803	-.1994		-.1335	.2182	-.0060	-.0429	-.0700							
150.000			-.1764	-.0307	-.1439	-.0765	-.0634								
150.000	-.1937	-.8011	-.1532	1.0766	-.1741	-.1763	-.2113								
165.000	-.1510			-.1363		-.0004	.1003	.0730							
180.000	-.1306	-.1330		-.0846	-.0302										
ALPHAO(5) = 8.000 BETA0(2) = -4.060															
SECTION (1) ORBITER FUSELAGE															
DEPENDENT VARIABLE CP															
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.0000	1.3390	1.1120	.8470	.5636	.0339	.0000		-.0341		.0641	.0132	.0025	-.0763	.0145	.0407
20.000			.9137	.5267	.1392	.2469		-.0993		-.0037					
40.000			.9237	.7464	.4064	.1707		.1697		-.0523	-.1113	-.0928	.0507	.0333	.0396
55.000			.8145	.7361	.5471	.2922		.1369		.0909					
70.000			.7170	.6413	.4927	.3016		.1736		.0739	-.0679	-.0701	-.0460	-.0039	
90.000								.1804		.0914	-.0346	-.0384	-.0722	-.0343	
120.000	.7260							.1521		.2106	.0237	-.1035	-.1495	-.1730	
150.000										.2235					
160.000									.1190	-.1637	-.1637	-.1468	-.1136		
180.000									.6364						
151.000								.6535							
156.000															
162.000															
165.000															
180.000															

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 OL-T12-S12M2-A711 ORB. FUSELAGE (083812)

ALPHA(01) = 0.000 BETA(03) = -.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1463	.0979	.2501	.2336	-.1439	-.2019	-.1746	-.0902	-.0916	
40.000	.1174	.2250	.4239	.0443	-.1675	-.1860	-.1899	.0000	-.1615	
70.000	-.0860	.0096	-.1183	-.1336	-.0673	-.0766	-.0973			
90.000	-.0366	-.0693	-.1195	-.0593	-.0293	-.0634	-.0920			
105.000			-.1061	-.0040	-.0286	-.0866	-.0976			
110.000								-.1348		
120.000	-.0653	-.0807	.0447	.2207	-.0422	-.0754	-.0914	-.1062		
135.000		.0330	.0330	.1576	-.1039	-.0161	-.0288			
150.000	-.0709	-.0597	.0435	.1054	.0374	.0118	-.0362			
165.000	-.0763	.0043	.0043	.1230	.0445	-.0252				
180.000	-.0773	-.0324	-.0466	.2041						

ALPHA(01) = 0.000 BETA(04) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3100	1.2070	.3709	-.0036	1.2460	.0000		-.0006		.0323	-.0350	-.0639	-.0763	.0213	.0333
20.000		.4923	.1051	1.2680	.9025			-.1147		.1000					
40.000		.4996	1.0590	1.1410	1.0890			-.0082		-.0756	-.0639	-.0843	-.1038	.0382	.0641
55.000		.3946	1.0590	1.1090	1.2040			.0795		-.0221					
70.000		.3391	1.0900	1.1330	1.456			.0612		.0193	-.1164	-.1303	-.1203	-.1337	
80.000	.4317	.3367	1.0900	1.1640	.1691			.0907		.0514	-.0593	-.1061	-.1371	-.1503	
120.000		.3096	1.1140	1.1790	.1173			.2641		.1295	-.0549	-.1635	-.1567	-.1271	
140.000		.2917	1.1150	1.1570	.1168					.0903					
150.000								.4677		.0069	-.1642	-.1396	-.1129	-.1014	
151.000								.5383							
156.000								.6396							
162.000										-.0515	-.1632	-.1131	-.1022	-.0965	
169.000								.7050							
174.000					.5370										
180.000	1.3100	.9236	.2834	1.1040	1.1410	.1561		.7273		-.1002	-.1673	-.1131	-.1066	-.1032	
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1229	.0643	.2164	.1093	-.1693	-.2115	-.1693								
40.000	.1119	.1743	.2489	-.0150	-.1476	-.1701	-.2120								
70.000	-.0739	.0441	-.1804	-.0960	-.1009	-.0942	-.0993								
90.000	-.0900	-.0732	-.1160	-.0320	-.0540	-.0849	-.1032								
105.000			-.0513	-.0364	-.0503	-.0654	-.1032								
110.000															-.1287

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DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083812)

ARC97-716 1A14 Q1+712+312MS+AT11 CR8. FUSELAGE

ALPHA(5) = 8.090 BETA(4) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .6530 .7300 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

120.000 -.0415 -.0483 .0109 -.0368 -.0368 -.0704 -.0864 -.1096

135.000 .1925 .2934 -.0679 -.0423 -.0566

150.000 -.1024 -.0656 .0816 .2120 -.0001 -.0469 -.0849

165.000 -.0946 .0327 .0797 .0141 -.0488

180.000 -.0885 -.0858 .0020 .0877

ALPHA(5) = 8.110 BETA(5) = 7.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1120 .1560 .1670 .1760 .2050 .2520 .3010 .3790 .4990 .5760

PHI

.000 1.3070 1.0140 .0776 .0266 .0446 .0000 .0315

20.000 .1377 -.0407 .1756 .2953

40.000 .2098 .0190 .1439 .1783

55.000 .1773 .0275 .0331 .0385

70.000 .1627 .0519 .0117 .0161

90.000 .3179 .1756 .0928 .0200 .0069

120.000 .1682 .1108 .0477 .0310 .1081

140.000 .1680 .1447 .1150 .0723

150.000 .4626

161.000 .5744

172.000 .5980

183.000 .4190

194.000 .5635

174.000 .1341

180.000 .9230 .9630 1.0020 1.0210 1.0480

X/LB

PHI

.000 .0768 .0415 .2175 .1483 .1838 .2058 .1886

40.000 .0917 .1901 .2973 .0708 .1619 .1651 .1719

70.000 .0951 .0036 .1046 .1056 .1007 .0960 .1011

90.000 .0412 .0674 .1123 .0672 .0635 .1013 .1178

105.000 .0931 .0323 .0805 .1108 .1178

110.000 .1395

120.000 .0701 .0109 .1180 .1088 .1096

135.000 .0674 .2028 .0664 .0788 .1076

150.000 .1235 .1060 .0366 .0444 .0165 .0950 .1499

165.000 .1237 .0955 .0572 .1062 .1424

180.000 .1237 .1332 .0694 .0057



CRB. FUSELAGE

REFERENCE DATA

UNIT	INCHES	FEET	INCHES	FEET
1/8"	0.125	0.0104	1/8"	0.125
1/4"	0.250	0.0208	1/4"	0.250
3/8"	0.375	0.0312	3/8"	0.375
1/2"	0.500	0.0417	1/2"	0.500
5/8"	0.625	0.0521	5/8"	0.625
3/4"	0.750	0.0625	3/4"	0.750
7/8"	0.875	0.0729	7/8"	0.875
1"	1.000	0.0833	1"	1.000
1 1/8"	1.125	0.0938	1 1/8"	1.125
1 1/4"	1.250	0.1042	1 1/4"	1.250
1 3/8"	1.375	0.1146	1 3/8"	1.375
1 1/2"	1.500	0.1250	1 1/2"	1.500
1 5/8"	1.625	0.1354	1 5/8"	1.625
1 3/4"	1.750	0.1458	1 3/4"	1.750
1 7/8"	1.875	0.1563	1 7/8"	1.875
2"	2.000	0.1667	2"	2.000
2 1/8"	2.125	0.1771	2 1/8"	2.125
2 1/4"	2.250	0.1875	2 1/4"	2.250
2 3/8"	2.375	0.1979	2 3/8"	2.375
2 1/2"	2.500	0.2083	2 1/2"	2.500
2 5/8"	2.625	0.2188	2 5/8"	2.625
2 3/4"	2.750	0.2292	2 3/4"	2.750
2 7/8"	2.875	0.2396	2 7/8"	2.875
3"	3.000	0.2500	3"	3.000
3 1/8"	3.125	0.2604	3 1/8"	3.125
3 1/4"	3.250	0.2708	3 1/4"	3.250
3 3/8"	3.375	0.2812	3 3/8"	3.375
3 1/2"	3.500	0.2917	3 1/2"	3.500
3 5/8"	3.625	0.3021	3 5/8"	3.625
3 3/4"	3.750	0.3125	3 3/4"	3.750
3 7/8"	3.875	0.3229	3 7/8"	3.875
4"	4.000	0.3333	4"	4.000
4 1/8"	4.125	0.3438	4 1/8"	4.125
4 1/4"	4.250	0.3542	4 1/4"	4.250
4 3/8"	4.375	0.3646	4 3/8"	4.375
4 1/2"	4.500	0.3750	4 1/2"	4.500
4 5/8"	4.625	0.3854	4 5/8"	4.625
4 3/4"	4.750	0.3958	4 3/4"	4.750
4 7/8"	4.875	0.4063	4 7/8"	4.875
5"	5.000	0.4167	5"	5.000
5 1/8"	5.125	0.4271	5 1/8"	5.125
5 1/4"	5.250	0.4375	5 1/4"	5.250
5 3/8"	5.375	0.4479	5 3/8"	5.375
5 1/2"	5.500	0.4583	5 1/2"	5.500
5 5/8"	5.625	0.4688	5 5/8"	5.625
5 3/4"	5.750	0.4792	5 3/4"	5.750
5 7/8"	5.875	0.4896	5 7/8"	5.875
6"	6.000	0.5000	6"	6.000
6 1/8"	6.125	0.5104	6 1/8"	6.125
6 1/4"	6.250	0.5208	6 1/4"	6.250
6 3/8"	6.375	0.5312	6 3/8"	6.375
6 1/2"	6.500	0.5417	6 1/2"	6.500
6 5/8"	6.625	0.5521	6 5/8"	6.625
6 3/4"	6.750	0.5625	6 3/4"	6.750
6 7/8"	6.875	0.5729	6 7/8"	6.875
7"	7.000	0.5833	7"	7.000
7 1/8"	7.125	0.5938	7 1/8"	7.125
7 1/4"	7.250	0.6042	7 1/4"	7.250
7 3/8"	7.375	0.6146	7 3/8"	7.375
7 1/2"	7.500	0.6250	7 1/2"	7.500
7 5/8"	7.625	0.6354	7 5/8"	7.625
7 3/4"	7.750	0.6458	7 3/4"	7.750
7 7/8"	7.875	0.6563	7 7/8"	7.875
8"	8.000	0.6667	8"	8.000
8 1/8"	8.125	0.6771	8 1/8"	8.125
8 1/4"	8.250	0.		

PARAMETRIC DATA

MACH =	1.350	ELEVON =	.000
RUDDER =	.000	SFOBRK =	.000

ALPHA(1) = -7.930 BETA(1) = -0.030

SECTION : 1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

N/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000	.1050	.1100	.1150	.1200	.1250	.1300	.1350	.1400	.1450	.1500	.1550	.1600	.1650	.1700	.1750	.1800	.1850	.1900	.1950	.2000	.2050	.2100	.2150	.2200	.2250	.2300	.2350	.2400	.2450	.2500	.2550	.2600	.2650	.2700	.2750	.2800	.2850	.2900	.2950	.3000	.3050	.3100	.3150	.3200	.3250	.3300	.3350	.3400	.3450	.3500	.3550	.3600	.3650	.3700	.3750	.3800	.3850	.3900	.3950	.4000	.4050	.4100	.4150	.4200	.4250	.4300	.4350	.4400	.4450	.4500	.4550	.4600	.4650	.4700	.4750	.4800	.4850	.4900	.4950	.5000	.5050	.5100	.5150	.5200	.5250	.5300	.5350	.5400	.5450	.5500	.5550	.5600	.5650	.5700	.5750	.5800	.5850	.5900	.5950	.6000	.6050	.6100	.6150	.6200	.6250	.6300	.6350	.6400	.6450	.6500	.6550	.6600	.6650	.6700	.6750	.6800	.6850	.6900	.6950	.7000	.7050	.7100	.7150	.7200	.7250	.7300	.7350	.7400	.7450	.7500	.7550	.7600	.7650	.7700	.7750	.7800	.7850	.7900	.7950	.8000	.8050	.8100	.8150	.8200	.8250	.8300	.8350	.8400	.8450	.8500	.8550	.8600	.8650	.8700	.8750	.8800	.8850	.8900	.8950	.9000	.9050	.9100	.9150	.9200	.9250	.9300	.9350	.9400	.9450	.9500	.9550	.9600	.9650	.9700	.9750	.9800	.9850	.9900	.9950	1.0000	1.0050	1.0100	1.0150	1.0200	1.0250	1.0300	1.0350	1.0400	1.0450	1.0500	1.0550	1.0600	1.0650	1.0700	1.0750	1.0800	1.0850	1.0900	1.0950	1.1000	1.1050	1.1100	1.1150	1.1200	1.1250	1.1300	1.1350	1.1400	1.1450	1.1500	1.1550	1.1600	1.1650	1.1700	1.1750	1.1800	1.1850	1.1900	1.1950	1.2000	1.2050	1.2100	1.2150	1.2200	1.2250	1.2300	1.2350	1.2400	1.2450	1.2500	1.2550	1.2600	1.2650	1.2700	1.2750	1.2800	1.2850	1.2900	1.2950	1.3000	1.3050	1.3100	1.3150	1.3200	1.3250	1.3300	1.3350	1.3400	1.3450	1.3500	1.3550	1.3600	1.3650	1.3700	1.3750	1.3800	1.3850	1.3900	1.3950	1.4000	1.4050	1.4100	1.4150	1.4200	1.4250	1.4300	1.4350	1.4400	1.4450	1.4500	1.4550	1.4600	1.4650	1.4700	1.4750	1.4800	1.4850	1.4900	1.4950	1.5000	1.5050	1.5100	1.5150	1.5200	1.5250	1.5300	1.5350	1.5400	1.5450	1.5500	1.5550	1.5600	1.5650	1.5700	1.5750	1.5800	1.5850	1.5900	1.5950	1.6000	1.6050	1.6100	1.6150	1.6200	1.6250	1.6300	1.6350	1.6400	1.6450	1.6500	1.6550	1.6600	1.6650	1.6700	1.6750	1.6800	1.6850	1.6900	1.6950	1.7000	1.7050	1.7100	1.7150	1.7200	1.7250	1.7300	1.7350	1.7400	1.7450	1.7500	1.7550	1.7600	1.7650	1.7700	1.7750	1.7800	1.7850	1.7900	1.7950	1.8000	1.8050	1.8100	1.8150	1.8200	1.8250	1.8300	1.8350	1.8400	1.8450	1.8500	1.8550	1.8600	1.8650	1.8700	1.8750	1.8800	1.8850	1.8900	1.8950	1.9000	1.9050	1.9100	1.9150	1.9200	1.9250	1.9300	1.9350	1.9400	1.9450	1.9500	1.9550	1.9600	1.9650	1.9700	1.9750	1.9800	1.9850	1.9900	1.9950	2.0000	2.0050	2.0100	2.0150	2.0200	2.0250	2.0300
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ARC87-716 1A14 CR-712-S12M25 ORB. FUSELAGE (003913)

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.3760
PM1															
.000	1.4770	.9673	.5637	.3759	.2824	.0000		.0999		.1312	-.0174	.0356	.0753	-.0666	-.0466
20.000		.9367	.4390	.3242	.2918			.0906		.0243					
40.000		.7920	.5196	.3963	.3215			.1441		.0676	.1240	-.0353	-.0596	.0221	.0028
55.000		.6731	.6232	.4778	.3535			.1786		.1357					
70.000		.6941	.6529	.4956	.3533			.2679		.2071	-.1305	-.0269	.0234	.0541	
90.000	1.0860	.6673	.6704	.4950	.3937			.3560		.1825	-.0844	-.1144	.0072	.0500	
120.000		.6758	.6701	.5516	.5290			.6272		.2436	-.0235	-.2424	-.0632	.0399	
140.000								.2195							
150.000		.6053	.6697	.5675	.5681			.0226		.0226	-.1975	-.0938	-.0349	.0231	
151.000								1.0550	.8061						
154.000									.8665						
162.000										-.0454	-.1622	-.0699	-.0419	-.0008	
165.000															
199.000															
174.000															
180.000	1.4770	1.0190	.7820	.6298	.5872	.5793	1.2060	1.0330		-.1500	-.1637	-.0558	-.0362	-.0240	
M/LB	.8330	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460					

PM1

.000	-.0079	.0341	-.0425	-.1187	-.3843	-.2539	-.2363								
40.000	.0314	.0429	-.0942	-.0707	-.2720	-.3225	-.4232		-.1370	-.1287					
70.000	.0727	.0415	-.0817	.1117	.1174	.0920	.0937		-.2692	-.2183					
90.000	.0737	.0358	-.0403	.1621	.0771	.0565	.0579								
105.000		.1691	.1463	.0207	.0235	.0542									
110.000								.0024							
120.000	.0336	.0803	.3063	.3391	-.0259	.0226	.0293	.0336							
135.000		.4545	.4700	.0636	.1792	.1205									
150.000	.0227	.0516	.3157	.4264	.2444	.2373	.0907								
165.000	.0220	.3264		.4095	.2643	.0325									
180.000	.0217	.0237	.3326	.4186											

ALPHA(1) = -7.940 BETA(3) = .130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.3760
PM1															
.000	1.3230	1.0040	.5729	.3207	.2907	.0000		.0584		-.0618	-.0922	.0587	-.0043	-.0423	-.0864
20.000		.6066	.3611	.2996	.2902			.0743		.1074					
40.000		.6632	.4185	.3447	.3224			.1476		.0593	.0361	-.0336	-.0046	-.0043	-.0126
55.000		.7350	.4637	.3932	.2767			.1320		.1011					
70.000		.7518	.5145	.3921	.2691			.2596		.1358	-.1753	-.1302	.0373	.0193	
90.000	.8749	.7365	.5452	.3956	.3245			.3130		.1076	-.1625	.1727	-.0430	.0095	



ARC97-716 1A14 C1+T12+S12M5 CRB. FUSELAGE (R83813)

SECTION (1) ORBITER FUSELAGE

[illegible]

ALPHA(1) = -7.900 BETA(4) = 4.220

SECTION (1) ORBITER FUSELAGE

[illegible]

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 46

ALPHA(1) = -7.980 BETA(4) = 4.220

ARC97-716 1A14 Q1+712+312N25 ORB. FUSELAGE (0833813)

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3760	.4990	.5760
Phi															
165.000															
169.000															
174.000															
180.000	1.4680	9.467	.7450	.6516	.5713	.5760	1.1460	1.0940							
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

Phi

.000	-.0728	-.0092	-.0903	-.1633	-.2274	-.2406	-.2410								
40.000	-.0728	-.1213	-.0946	-.1436	-.2016	-.2144	-.2966								
70.000	-.0207	-.1020	-.0141	-.0832	.1150	.1245	.1208								
90.000	-.0217	-.0330	.0466	.0960	.0299	.0959	.1026								
105.000															
110.000															
120.000	-.0102	-.0009	.0364	-.0121	-.1861	-.0229	-.0063	-.0226							
135.000															
150.000	-.0065	.0012	.3634	.5324	.1352	.0367	-.0863	-.0393							
165.000	-.0095		.3654		.2399	.0671	-.0970								
180.000	-.0095	.0143	.3561	.4617											

ALPHA(1) = -7.980 BETA(5) = 6.150

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3760	.4990	.5760
Phi															
.000	1.4590	.9611	.4267	.1193	-.2952	.0000		.1605		.1257	.0624	.0191	-.0040	-.1006	-.1466
20.000								.1260		-.1181					
40.000								.0465		.0392	-.0212	.0637	.0659	-.1342	-.1033
55.000								.1203		.0221					
70.000								.1553		.0728	-.2469	-.1959	-.0231	.0169	
80.000		.4419	.4674	-.0206	-.1933	.1024		.1406		.0156	-.2333	-.2517	.0135	.0166	
120.000								.2691		-.0570	-.2140	-.3605	-.2463	-.0271	
140.000										-.1815					
150.000										-.1499	-.2536	-.0912	-.1000	-.0701	
151.000										.4637					
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.4590	.9227	.6793	.5004	.3660	.5006	1.0530	.7769		-.1590	-.1989	-.0909	-.0590	-.0812	
								.6446							
								.6666							
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083813)

ORIG. FUSELAGE

ARC97-716 1A14 OR-T12-S12N29

ALPHA(1) = -7.960 BETA(1) = 0.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	-.0617	-.0027	-.0636	-.8023	-.2871	-.2566	-.3214		-.1166	-.1403
40.000	-.0817	-.1091	-.1080	-.1474	-.3182	-.2440	-.2911		-.1160	-.1693
70.000	.0544	-.1081	.0163	.0811	.0437	.0866	.0804			
90.000	.0342	-.0346	.0497	.0661	-.0084	.0457	.0737			
105.000		.1013	.0311	-.0680	.0397	.0504				
110.000							-.0570			
120.000	.0071	.0363	-.0463	-.0993	-.2682	-.1346	-.0637		-.1323	
135.000		.2233	.3933	-.1572	-.1942	-.2295				
150.000	-.0165	-.0163	.3353	.5059	.1076	-.0169	-.1343			
165.000	-.0023		.3352	.1955	.0410	-.1103				
180.000	-.0033	.0075	.3156	.4434						

ALPHA(2) = -4.020 BETA(2) = -7.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2520	.3010	.3780	.4990	.5780
PHI														
.000	1.4780	.9665	.5647	.3363	.1913	.0000		.1182	.1169	-.0215	.0739	.0224	-.0169	-.0893
20.000		.7097	.4296	.2520	.1962			.0326	.0362	.0320	.0936	-.0443	.0330	.0499
40.000		.9416	.5626	.3723	.2632			.1355	.1349					
55.000		1.0390	.7591	.5465	.3418			.1170	.2407	-.0907	-.0122	.0604	.0320	
70.000		1.0230	.7657	.5694	.3723			.2494	.2503	-.0370	-.0763	.0297	.0317	
90.000		1.1690	.9667	.7488	.5324			.3331	.3051	.0146	-.1936	-.1063	-.0329	
105.000		.8632	.6461	.5199	.4859			.6495	.2502					
120.000									.1509	-.2487	-.1969	-.1199	-.0486	
135.000		.6998	.5405	.4337				.8175						
150.000								1.0410						
156.000									.8471					
162.000										-.1125	-.2157	-.2002	-.1209	-.0596
165.000														
169.000														
174.000														
180.000	1.4280	.6731	.5642	.4735	.4105	.3739	1.1170							
X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480				

PHI														
.000	.0654	-.0476	.0559	-.0941	-.3935	-.3665	-.3266		-.1661	-.1135				
40.000	.1311	.1299	.0086	-.0178	-.1761	-.2977	-.4105		-.3473	-.3147				
70.000	.0644	.1321	-.0577	-.0027	.1019	.0666	.0998							
90.000	.0482	.0335	-.0396	.1629	.0512	.0436	.0343							
105.000		-.0027	.1333	.0363	-.0269	.0069								
110.000														

-.0084

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0035113

CRS. FUSELAGE

ARC97-716 1A14 CR+718+818MS

ALPHA(2) = -4.000 BETA(1) = -7.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0103	-.0156	.3097	.4594	-.0004	-.0229	.0301	.0568		
135.000			.2833	.3087	-.0831	.1861	.1851			
150.000	-.0194	-.0171	.1454	.1382	.2543	.3042	.1424			
165.000	-.0478	.1807		.4382	.3234	.0864				
180.000	-.0475	-.0320	.2417	.3014						

ALPHA(2) = -4.000 BETA(2) = -3.670

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3780	.4590	.5780
PHI															
.000	1.4820	1.0300	.5970	.3267	.2155	.0000		.0765	.0913	-.0597	-.1195	.0237	-.0592	-.0311	
20.000			.6716	.4032	.2693	.2461		.0547	.0042						
40.000			.7935	.5024	.3550	.2673		.1193	-.0312	.0300	-.0272	-.0677	.0805	.0165	
60.000			.8321	.5981	.4486	.2809		.1066	.0718						
80.000			.8584	.6180	.4553	.2822		.1775	.1602	-.1601	-.1199	-.0184	-.0134		
100.000		1.0080	.8346	.6233	.4460	.3318		.2832	.1485	-.1189	-.1483	-.0476	-.0137		
120.000			.7524	.5894	.4719	.4282		.5825	.2080	-.0767	-.2601	-.1484	-.0124		
140.000			.6987	.5592	.4639	.4482			.1736	-.0199	-.2590	-.1755	-.1066	-.0383	
160.000								1.0010	.7552						
180.000									.8137						
200.000										-.1033	-.2345	-.1367	-.1059	-.0631	
220.000															
240.000										-.2096	-.2497	-.1189	-.1099	-.0891	
260.000															
280.000															
300.000															

PHI

X/LB	.6330	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	-.0319	-.0404	-.0503	-.1105	-.3698	-.2930	-.1837		-.0930	-.0950
20.000	-.0195	.0202	-.0984	-.0435	-.2334	-.3105	-.4166		-.2842	-.2318
40.000	.0278	.0221	-.1019	.0097	.0480	.0203	.0275			
60.000	.0291	-.0189	-.0673	.0975	-.0029	-.0188	-.0205			
80.000			.0582	.0817	-.0291	-.0652	-.0334			
100.000								-.0801		
120.000									-.0248	-.0235
140.000									.1170	.0777
160.000									.1696	.0368
180.000									.3302	.0334
200.000										-.0198
220.000										
240.000										
260.000										
280.000										
300.000										



DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 50

ALPHA(1) = -4.030 BETA(4) = 4.120

0838131

CON. FUSELAGE

ARC97-716 1A14 CRATER-SIEMES

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3760	.4990	.5760
PM1															
120.000		.5930	.4233	.3133	.2644			.3991		.0267	-.1853	-.3702	-.2103	-.0839	
140.000										-.1029					
160.000		.6043	.5046	.4140	.3636					-.1402	-.2639	-.1559	-.1573	-.1302	
180.000								.8494							
191.000									.6637						
196.000										-.1105	-.2490	-.1055	-.1296	-.1095	
199.000								.9837							
174.000															
180.000	1.4110	.6220	.6372	.5321	.4736	.4354	1.0730	1.0110		-.2110	-.2292	-.1289	-.1119	-.0900	
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9600	1.0020	1.0210	1.0480					

PM1															
40.000	-.0870	-.0566	-.0821	-.1509	-.3148	-.1908	-.2345								
70.000	-.0737	-.0563	-.0204	-.0830	-.2621	-.2216	-.2849								
90.000	-.0121	-.0566	-.0637	.0067	.0655	.0609	.0603								
105.000	-.0124	-.0645	-.0019	.0762	-.0011	.0311	.0344								
115.000			.0643	.0136	-.0701	.0211	.0185								
120.000	-.0326	-.0187	.0332	.0140	-.1888	-.0596	-.0350								
135.000	-.0336	-.0323	.2643	.4166	.0845	-.0054	-.1240								
150.000	-.0499		.2735	.1806	.0377	-.1455									
180.000	-.0543	-.0326	.2698	.3560											

ALPHA(2) = -4.020 BETA(5) = 7.950

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3760	.4990	.5760
PM1															
20.000	1.4200	1.0030	.4026	.0568	-.0086	.0000		.1737		.0662	-.0595	.0192	-.0723	-.1163	-.1311
40.000			.3392	.0287	.0237	.1839		.0945		-.1556					
55.000			.2864	.0652	.0393	.1244		-.0136		-.0311	-.0373	-.0407	.0144	-.1637	-.1328
70.000			.3139	.1211	.0633	.0732		.0332		-.0235					
90.000			.3723	.1497	.0835	.0868		.0499		.0390	-.2661	-.2429	-.1000	-.0113	
100.000		.3862	.4191	.1996	.0952	.0911		.1165		-.0245	-.2634	-.2501	-.1474	-.0147	
120.000			.4642	.2960	.1629	.1697		.2713		-.0596	-.2416	-.3936	-.2631	-.0593	
140.000										-.1926					
150.000			.4924	.4183	.3286	.2330				-.1620	-.2552	.1457	-.1677	-.1127	
151.000								.7459							
156.000															
162.000															



DATE 87 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 51

ALPHA(2) = -4.020 BETA(5) = 7.990

ARC97-716 1A14 Q1+112+512+25

(083813)

ORB. FUSELAGE

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3760	.4990	.5760
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

163.000															
169.000															
174.000															
180.000	1.4200	.7486	.5740	.4935	.4853	.5722									

X/LB

.6330	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480						
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PHI

.000	-.0867	-.0506	-.0659	-.1911	-.3262	-.2349	-.3127								
40.000	-.0329	-.0303	-.0223	-.0963	-.3060	-.2372	-.2690								
70.000	.0136	-.0300	-.0433	.0001	-.0062	.0390	-.0347								
90.000	.0239	-.0326	.0213	.0143	-.0612	-.0652	-.0609								
105.000			.0756	.0153	-.1063	-.0844	-.0801								
110.000															
120.000	.0017	.0416	-.0073	-.0867	-.2421	-.1729	-.1768								
135.000			.1730	.3476	-.1593	-.1936	-.2323								
150.000	-.0169	-.0033	.2449	.3693	-.0697	-.0923	-.1713								
165.000	-.0437	.2472	.1350	.0031	-.1623										
180.000	-.0310	-.0284	.2442	.3572											

-.1244
-.1658

ALPHA(3) = -.190 BETA(1) = -9.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.7000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3760	.4990	.5760
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PHI

.000	1.3660	1.0170	.6000	.2777	.1401	.0000									
20.000		.7430	.4237	.2139	.1404										
40.000		.9955	.9924	.3593	.1918										
55.000		1.0740	.7649	.5344	.2785										
70.000		1.0200	.7748	.5320	.3176										
90.000	1.1250	.9331	.7296	.5261	.3743										
120.000		.7685	.5654	.4305	.3660										
140.000															
150.000		.6023	.4371	.3659	.3345										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3660	.7780	.4866	.3648	.3308	.2841									

X/LB

.6330	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480						
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PHI

.000	1.3660	1.0170	.6000	.2777	.1401	.0000									
20.000		.7430	.4237	.2139	.1404										
40.000		.9955	.9924	.3593	.1918										
55.000		1.0740	.7649	.5344	.2785										
70.000		1.0200	.7748	.5320	.3176										
90.000	1.1250	.9331	.7296	.5261	.3743										
120.000		.7685	.5654	.4305	.3660										
140.000															
150.000		.6023	.4371	.3659	.3345										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3660	.7780	.4866	.3648	.3308	.2841									

X/LB

.6330	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480						
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(S 1862)

CRB. FUSELAGE

ARC97-716 1A14 Q1+Y12+312N25

ALPHA(3) = -.120 BETA(1) = -.000

SECTION (1) ORBITER FUSELAGE

X/LB	.6530	.7500	.7610	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480
FWI										
.0000	.1024	-.0920	.0724	-.0203	-.3684	-.3749	-.3047		-.1413	-.0856
40.0000	.1485	.1436	.0973	.1715	-.1444	-.2767	-.3957		-.3332	-.3102
80.0000	.0299	.1456	-.1091	-.1272	.0299	.0264	.0475			
90.0000	.0530	-.0001	-.0864	.1046	.0123	-.0161	-.0297			
105.0000			-.0733	.1186	.0096	-.0630	-.0607			
110.0000								-.0913		
120.0000	-.0726	-.0680	.2233	.4261	-.0290	-.0580	-.0611	-.0220		
135.0000		.2025	.2025	.2308	-.1362	.0969	.1002			
150.0000	-.0756	-.0712	.0661	.0921	.1524	.2572	.1002			
165.0000	-.0930		.1826		.3602	.2526	.0766			
180.0000	-.0960	-.0469	.2071	.2319						

$$\text{ALPHA}(3) = -.170 \quad \text{BETA}(2) = -.5980$$

SECTION (1) ORBITER FUSELAGE

N/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1560	.1670	.1760	.2050	.2320	.3010	.3760	.4990	.5760
PHI															
.0000	1.3670	1.0560	.6143	.2374	.1715	.0000		.0762		-.0232	-.0341	-.1641	.1023	-.0770	-.0419
20.000		.6954	.3642	.2365	.2345			.0496		.0165					
40.000		.8098	.4912	.3372	.2718			.1142		-.0374	-.0075	-.1405	.0315	.0318	.0224
55.000		.8520	.5316	.4319	.2462			.0692		.0461					
70.000		.8430	.5946	.4279	.2440			.1322		.1139	-.1465	-.1248	-.0653	-.0397	
90.000		.9714	.5996	.4079	.2670			.2019		.1392	-.1096	-.1475	-.1481	-.0171	
120.000		.7233	.5169	.3992	.3500			.5465		.1877	-.0949	-.2562	-.1847	-.0530	
140.000								.1541							
150.000		.6075	.4649	.3662	.3520				.7170	-.0421	-.3007	-.2369	-.1551	-.0959	
151.000								.9564							
156.000									.7653						
162.000															
165.000															
169.000															
174.000															
180.000	1.5670	.6075	.5175	.4396	.3755	.3364	1.0570	.9184		-.2462	-.2914	-.1761	-.1541	-.1324	
181.000	.6530	.7300	.7610	.6830	.6620	.6230	.9630	1.0020	1.0210	1.0490					

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103.0000	-.0025	-.0598	-.0456	-.1159	-.0916	-.1085
102.0000	-.0075	-.0479	-.0314	-.0575	-.0338	-.0747
90.0000	-.0075	-.0479	-.1214	-.0575	-.0338	-.0590
70.0000	-.0124	-.1053	-.1456	-.0906	-.0038	-.0152
40.0000	-.0619	-.1046	-.0231	-.0896	-.1927	-.4139
0.0000	-.0267	-.0774	-.0840	-.0375	-.4070	-.3444
						-.2202
						-.0569
						-.0710
						-.3372
						-.2647



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(N83813)

CRG. FUSELAGE

ARC97-716 1A14 Q1+T12+312N25

ALPHA(1 3) = -.170 BETA(1 2) = -3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .6530 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

120.000 -.0618 -.0807 .1354 .3239 -.0898 -.1019 -.0868 -.0672
 135.000 .2946 .2946 -.1218 .0822 .0373
 150.000 -.0808 -.0353 .1774 .1761 .1018 .1360 .0036
 165.000 -.0866 .1940 .2672 .1473 -.0444
 180.000 -.0767 -.0485 .1966 .2360

ALPHA(1 3) = -.180 BETA(1 3) = -.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1120 .1360 .1670 .1760 .2030 .2320 .3010 .3790 .4990 .5760

PHI

.0000 1.4130 1.1450 .9771 .8169 .1330 .0000 .0592 -.0767 -.1612 -.2005 .1680 -.0357 -.0431
 20.000 .6314 .2907 .1592 .2094 .0186 .0362 .0363 .0273 -.1526 .0773 -.0052 -.0214
 40.000 .7105 .3866 .2532 .1903 .0930 .0383 .0346 .0093 -.1645 -.1598 -.0322
 55.000 .7065 .4439 .3219 .1434 .0535 .0046 .0867 .0893 -.1663 -.1920 -.0350
 70.000 .6959 .4546 .3182 .1761 .1555 .0867 .1250 .1460 .3221 .1744 -.0565
 90.000 .7866 .6777 .4711 .3148 .2265 .1555 .0396 .0396
 120.000 .6509 .4650 .3546 .3199
 140.000 .5936 .4701 .3666 .3501 .6543
 150.000 .9031 .7230
 156.000 .9974
 162.000 1.0220
 165.000 .9774
 169.000 .9774
 174.000 .9774
 180.000 .9774

X/LB .6530 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.0000 -.0019 -.0306 .0717 .0196 -.3946 -.2716 -.2099
 40.000 -.0022 .0004 .0694 .0466 -.1913 .3136 -.4081
 70.000 .0266 .0024 -.1316 -.0425 .0240 .0471 .0429
 90.000 -.0124 .0639 -.0666 .0298 -.0634 .0777 .0843
 105.000 .0509 .0255 .0830 .1255 .0866
 110.000 .1176
 120.000 -.0312 -.0273 .1628 .2172 -.1205 .1003 .0999 -.1042
 135.000 .2446 .3456 .0631 .0220 .0199
 150.000 -.0303 .0032 .2337 .3073 .0637 .0628 .0633
 165.000 -.0312 .2479 .1920 .0627 .0890
 180.000 -.0303 .0062 .3321

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 ORBITER FUSELAGE (083813)

ALPHA(3) = -.800 BETA(4) = 4.121

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0230	0.0470	0.0700	0.1120	0.1900	0.1670	0.1760	0.2030	0.2320	0.3010	0.3790	0.4990	0.5760
PHI															
0.000	1.4290	1.0970	.4746	.1121	.1167	.0000		.1320	-.1286	-.1022	-.1055	.0568	-.0700	-.1008	
20.000			.4786	.1956	.0931	.1866		-.0134	-.0108	-.0404	-.1005	-.1931	.0591	-.0422	-.0486
40.000			.5044	.2400	.1330	.1579		.0099	-.0593						
60.000			.5236	.2865	.1988	.0891		.0272							
80.000			.5322	.3008	.2137	.1011		.0412	.0541	-.2373	-.2244	-.2101	-.0797		
100.000		.5488	.5322	.3008	.2137	.1011		.1097	.0257	-.2261	-.2623	-.2360	-.0847		
120.000			.5468	.3459	.2117	.1367		.3636	.0263	-.2098	-.3781	-.2216	-.1222		
140.000			.5462	.3848	.2851	.2336			-.1093	-.1956	-.3041	-.1979	-.1886	-.1424	
160.000			.5302	.4423	.3479	.2927		.5367							
180.000								.8029	.6352	-.1494	-.2872	-.1511	-.1653	-.1348	
200.000								.9347							
220.000								.9507	-.2472	-.2694	-.1716	-.1544	-.1247		
240.000	1.4290	.7082	.5428	.4702	.4001	.3480	1.0140								
260.000	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
0.000	1.4290	1.0970	.4746	.1121	.1167	.0000		.1320	-.1286	-.1022	-.1055	.0568	-.0700	-.1008	
20.000			.4786	.1956	.0931	.1866		-.0134	-.0108	-.0404	-.1005	-.1931	.0591	-.0422	-.0486
40.000			.5044	.2400	.1330	.1579		.0099	-.0593						
60.000			.5236	.2865	.1988	.0891		.0272							
80.000			.5322	.3008	.2137	.1011		.0412	.0541	-.2373	-.2244	-.2101	-.0797		
100.000		.5488	.5322	.3008	.2137	.1011		.1097	.0257	-.2261	-.2623	-.2360	-.0847		
120.000			.5468	.3459	.2117	.1367		.3636	.0263	-.2098	-.3781	-.2216	-.1222		
140.000			.5462	.3848	.2851	.2336			-.1093	-.1956	-.3041	-.1979	-.1886	-.1424	
160.000			.5302	.4423	.3479	.2927		.5367							
180.000								.8029	.6352	-.1494	-.2872	-.1511	-.1653	-.1348	
200.000								.9347							
220.000								.9507	-.2472	-.2694	-.1716	-.1544	-.1247		
240.000	1.4290	.7082	.5428	.4702	.4001	.3480	1.0140								
260.000	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(3) = -.810 BETA(4) = 8.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0230	0.0470	0.0700	0.1120	0.1900	0.1670	0.1760	0.2030	0.2320	0.3010	0.3790	0.4990	0.5760
PHI															
0.000	1.3900	.8874	.3192	-.0141	-.0693	.0000		.1217	-.0512	-.0863	-.0627	-.0416	-.0817	-.1039	
20.000			.2456	-.0416	-.0400	.1577		.0311	-.1589						
40.000			.2161	.0073	.0362	.0815		-.0534	-.0624	-.1183	-.1784	.0085	-.0818	-.0353	
60.000			.2161	.0594	.0719	.0294		-.0124	-.0887						
80.000			.2733	.0889	.0665	.0566		-.0038	-.0016	-.2815	-.2715	-.0873	-.0376		
100.000		.3404	.3378	.1493	.0498	.0734		.0821	-.0322	-.2815	-.2890	-.1209	-.0376		



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR+712+312M3 CRB. FUSELAGE (083813)

ALPHA(1) = 3.930 BETA(1) = -8.070

SECTION 1108BITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1700	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
165.000								.9743							
169.000							.9077								
174.000								.7256							
180.000	1.2840	.6727	.3671	.2847	.2341	.1998									
X/LB	.6330	.7300	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0480					

PM1															
.000	.1577	-.0771	.1924	.0957	-.3904	-.4206	-.3703								
40.000	.1901	.1688	.1653	.4156	-.1254	-.2967	-.4030								
70.000	.0030	.1896	-.1964	-.1964	-.0395	-.0563	-.0170								
90.000	.0216	-.8470	-.1412	.0283	-.0370	-.0803	-.1119								
105.000			-.1363	.0679	-.0297	-.1169	-.1296								
110.000															
120.000	-.1767	-.1880	.1033	.4043	-.0686	-.1076	-.1230								
135.000			.0903	.1386	-.1932	.0166	.0186								
150.000	-.1486	-.1089	.1244	.0521	.0369	.1704	.0222								
165.000	-.1136	.1416	.1416	.2530	.2071	.0539									
180.000	-.0771	.0040	.1366	.1806											

ALPHA(1) = 3.910 BETA(2) = -4.060

SECTION 1108BITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
.000	1.2870	1.1090	.6335	.2806	.1166	.0000		.0706		.0312	-.0364	-.1693	.1014	-.0296	.0472
20.000			.7391	.3782	.1841	.1771		.0396		.0062					
40.000			.6320	.5154	.3149	.2214		.0973		-.0303	-.0317	-.1261	-.0354	.0948	.1242
55.000			.6630	.5013	.4268	.2254		.1484		.0014					
70.000			.8231	.5910	.4128	.2028		.1317		.0868	-.1619	-.1556	-.0930	-.0667	
90.000	.6290		.7807	.5810	.3748	.2358		.1771		.1567	-.1221	-.1674	-.1618	-.0384	
120.000			.6236	.4478	.3229	.2575		.3473		.1841	-.0874	-.2734	-.2541	-.1345	
140.000										.1436					
150.000			.5160	.3752	.3048	.2642				-.0400	-.3321	-.2621	-.2063	-.1392	
160.000								.8777							
174.000															
180.000	1.2870	.6683	.4297	.3582	.2893	.2619		.9374							
							.9117								
X/LB	.6330	.7300	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0480					



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC07-716 1A14 Q1+712+812N25 ORB. FUSELAGE 0838131

ALPHA0(4) = 3.810 BETAO(2) = -4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6300	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1183	-.0943	.1838	.1205	-.4018	-.3546	-.2523		-.0574	-.0468
40.000	.1364	.1248	.1303	.2621	-.1655	-.2826	-.4112		-.3290	-.2666
70.000	-.0237	.1261	-.1830	-.2072	-.0659	-.0730	-.0563			
90.000	-.0084	-.0891	-.1655	.0116	-.0673	-.1100	-.1353			
103.000		-.1459		.0301	-.0606	-.1486	-.1543			
110.000								-.1881		
120.000	-.1140	-.1023	.1205	.3542	-.1040	-.1326	-.1461	-.1267		
135.000		.2125	.2125	.2267	-.1786	-.0660	-.0029			
150.000	-.1437	-.0815	.1562	.1162	-.0123	.0970	-.0303			
165.000	-.1076	.1556		.1868	.1067	-.0766				
180.000	-.1079	.0985	.1453	.2072						

ALPHA0(4) = 3.810 BETAO(3) = -.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1580	.1670	.1760	.2030	.2520	.3010	.3780	.4980	.5780
PHI															
.000	1.4290	1.1670	.5425	.1643	.1164	.0000		.0610	-.0554	-.1502	-.2433	.0916	-.0262	-.0176	
20.000		.6134	.2455	.1130	.2440			-.0002	.0185	-.0785	-.1806	.0737	.0023	.0129	
40.000		.7169	.3663	.2076	.2304			.0614	.0173	-.0396					
55.000		.7166	.4394	.3008	.1539			.1070	-.0606	-.2014	-.2004	-.1869	-.0960		
70.000		.6743	.4348	.2955	.1376			.0627	.1234	-.1634	-.2145	-.2205	-.0714		
90.000	.7325	.6377	.4356	.2612	.1845			.1259	.1214	-.1571	-.3118	-.2376	-.1053		
120.000		.5617	.4015	.2955	.2434			.4324	.0477						
140.000		.5072	.4022	.3134	.2670				-.1337	-.3262	-.2547	-.1810	-.1541		
150.000								.6137							
151.000								.6570							
156.000									.6773						
162.000										-.1806	-.3190	-.2272	-.1754	-.1514	
165.000								.9366							
169.000							.9306								
174.630				.3912	.3324	.2680		.9162							
180.000	1.4280	.6680	.4636	.3912	.3324	.2680									
X/LB	.6330	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0943	-.0464	.1012	.0096	-.3547	-.2667	-.2224		-.1006	-.1046					
40.000	.0865	.0777	.1452	.0895	-.1838	-.3135	-.4221		-.3045	-.2216					
70.000	-.0427	.1015	-.1666	-.1353	-.0844	-.0890	-.0913								
90.000	-.0236	-.0646	-.1435	.0083	-.0930	-.1416	-.1469								
103.000		.0060	.0110	-.0997	-.1715	-.1685									
110.000															

-.1632

(N039113)

CRG. FUSLAGE

ARC07-716 1A14 CR-TIE-SIZES

ALPHA(1,4) = 3.910 BETA(1,3) = -.190

SECTION (1) CRITTER FUSLAGE

DEPENDENT VARIABLE CP

N/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PM1										
120.000	-.0032	-.0009	.1397	.2179	-.1359	-.1376	-.1268	-.1540		
135.000		.2311	.2714	-.1136	-.0131	-.0486				
150.000	-.0092	.0264	.1701	.2146	-.0401	.0191	-.0927			
165.000	-.0036		.1866	.1303	.0374	-.1171				
180.000	-.0464	.0036	.2034	.2661						

ALPHA(1,4) = 3.920 BETA(1,4) = 4.060

SECTION (1) CRITTER FUSLAGE

DEPENDENT VARIABLE CP

N/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3760	.4990	.5760
PM1															
20.000	1.4370	1.0760	.3618	.0459	1.2790	.0000		.1229	-.0975	-.2099	-.1599	.0915	-.0379	-.0215	
40.000			.4179	.1049	1.2930	1.2900		-.0440	-.0650	-.1715	-.2387	.0686	-.0534	-.0411	
60.000			.4688	1.2150	1.2910	1.3090		-.0266	-.0618	-.0964					
80.000			.4924	1.1710	1.2470	1.3480		.0039	-.0100	-.2467	-.2513	-.2509	-.1309		
100.000			.5040	1.1510	1.2450	.0661		-.0065	.0195	-.2504	-.2676	-.2605	-.1026		
120.000		.5083	.5103	1.1240	1.2410	.0925		.0306	.0135	-.2443	-.3961	-.2593	-.1208		
140.000			.4377	1.1160	1.2020	.1804		.3527	-.1238	-.3473	-.2674	-.2269	-.1865		
160.000			.4418	1.0830	1.1560	.2182		.5052	-.2006						
180.000								.7533							
200.000								.5934	-.1957	-.3308	-.2158	-.2269	-.1818		
220.000								.9045		-.2953	-.3165	-.2371	-.2094	-.1982	
240.000	1.4370	.5973	.4288	1.0680	1.1220	.2674		.9088							
260.000									1.0020	1.0210	1.0480				

N/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PM1										
40.000	.0407	-.1209	.0488	-.0866	-.3599	-.1974	-.2436			
60.000	.0224	.1035	.0631	-.0163	-.2437	-.3318	-.2694			
80.000	-.0683	.1039	-.1669	.0020	-.0113	-.0366	-.0468			
100.000	-.0460	-.1050	-.0633	.0450	-.0391	-.0641	-.0854			
120.000			.0649	.0470	-.0761	-.1021	-.0931			
140.000								-.1523		
160.000	-.0448	-.0474	.1489	.1314	-.1134	-.1114	-.1175	-.1248		
180.000			.2436	.3740	-.0851	-.0338	-.0669			
200.000	-.0871	.0056	.1923	.2479	.0289	-.0108	-.1135			
220.000	-.1022		.1506	.1146	.0176	-.1443				
240.000	-.1212	.0283	.1397	.2115						



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 52

ARC97-716 1A14 OL-T18-S12M25 (M83813)

ORB. FUSELAGE

ALPHA(4) = 3.930 BETA(5) = 0.090

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5780
PHI	.0000	1.3920	.9417	.8089	-.0460	-.1222	.0000	.0214	.0147	-.1220	-.0635	-.0135	-.0297	-.0477	
20.000				.1363	-.0310	-.0029	.1732	-.0232	-.0592		-.1748	-.1947	-.0443	-.0314	.0419
40.000				.1174	-.0060	.1391	.0649	-.0742	-.1174		-.1150	-.0569	-.2794	-.1170	-.0453
60.000				.1220	.0466	.1157	.0255	-.0459	-.0569		-.0393	-.2671	-.2959	-.1628	-.0437
80.000				.1757	.0619	.0712	.0407	-.0286	-.0569		-.0626	-.2901	-.4167	-.1817	-.0665
100.000				.2947	.2529	.1077	.0495	.0031	-.2250		-.2482	-.3615	-.2185	-.1479	
120.000				.2811	.1701	.0960	.1112	.2536							
140.000				.2639	.2940	.1776	.1285								
160.000								.7282							
180.000								.5428							
200.000								.8643							
220.000								.8467							
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

.3774

.7282

.5428

.8643

.8467

.7861

.10020

1.0810

1.0480

-.1689

-.0574

-.0766

-.1105

-.2041

-.2216

-.2008

-.2163

-.2097

-.2199

-.1947

-.1947

-.1947

-.1947

-.1947

-.1947

-.1947

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-.1947

ALPHA(5) = 0.040 BETA(1) = -0.170

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5780
PHI	.0000	1.3760	1.0350	.3384	-.0014	-.0711	.0000	.0353	.0110	-.0921	-.1429	.1545	.1373	.1282	
20.000				.5964	.1961	.1040	-.1269	-.0711	-.0076		-.1336	-.0660	.0611	.2055	.2035
40.000				.9263	.4727	.3788	.0729	-.0206	-.1336		-.0303	-.0303	-.0303	-.0303	-.0303
60.000				1.0210	.6933	.5533	.2656	-.0816	-.0303		-.0303	-.0303	-.0303	-.0303	-.0303
80.000				.9709	.6080	.5111	.2908	.1256	.0303		-.1534	-.0941	.0355	.0200	.0200
100.000				1.0370	.8616	.6349	.4415	.1582	.0761		-.0957	-.0914	-.0203	-.0148	-.0148

(083813)

OBS. FUSELAGE

ARC97-716 1A14 Q1+712+312M5

ALPHAO(5) = 8.040 BETA0 (1) = -8.170

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5780
PMI															
120.000			.8396	.4126	.2373	.1934		.2566		.2417	-.0627	-.2382	-.2803	-.3853	
140.070										.2205					
150.000			.4075	.2176	.1516	.1227				.1054	-.3922	-.3866	-.3104	-.1951	
151.000									.7891						
158.000								.6767							
162.000									.7550						
169.000								.9102		-.2639	-.3582	-.3419	-.2667	-.1712	
174.000															
180.000	1.3780	.6021	.2327	.1471	.1273	.1054	.6936	.7265		-.3084	-.3866	-.3011	-.2206	-.1609	
X/LB	.6530	.7300	.7610	.6830	.6880	.6250	.6630	1.0020	1.0210	1.0480					

PMI

.000	.2230	-.0511	.2204	.1007	-.3673	-.4257	-.3600			-.0934	-.0243				
40.000	.2630	.1680	.2637	.3761	-.1626	-.3189	-.4046			-.3307	-.2902				
70.000	-.0075	.1684	-.1624	-.2335	-.1007	-.0997	-.0711								
90.000	-.0082	-.0433	-.1804	-.1231	-.0761	-.1189	-.1366								
105.000		-.1929	.0328	-.0379	-.1491	-.1566									
110.000							-.1871								
120.000	-.3725	-.2487	-.0951	.3491	-.0834	-.1446	-.1609	-.1382							
135.000			-.0572	.0512	-.2346	-.0333	-.0441								
150.000	-.1340	-.0804	.0315	-.0315	-.0335	-.0320	-.1456								
165.000	-.0785		.0796		.1265	.1446	.0066								
180.000	-.0321	.0296	.0849	.2296											

ALPHAO(5) = 8.020 BETA0 (2) = -4.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5780
PMI															
120.000			.5602	.1616	.0446	.0000		.0379		.0212	-.0529	-.1930	.1039	.0613	.0995
140.070			.7124	.2661	.1312	.1035		.0032		-.0215					
150.000			.6934	.4761	.3090	.1631		.0539		-.0937	-.0512	-.0973	-.0311	.1551	.1391
151.000								.0743		-.0280					
158.000			.9081	.5630	.4302	.2124		.0773		.0226	-.1821	-.1556	-.0453	-.0980	
162.000			.6397	.9677	.4036	.1997		.1223		.0591	-.1370	-.1763	-.1168	-.0753	
169.000			.7328	.9550	.3572	.2127		.2527		.1849	-.0123	-.2697	-.3033	-.2575	
174.000		.6824	.5329	.3519	.2251	.1634				.1386					
180.000										-.0111	-.3745	-.3372	-.2925	-.1991	
140.000			.4070	.2653	.2181	.1857			.6401						
150.000								.6282							
158.000															
162.000															



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 OR-TIS-312NE5 ORB. FUSELAGE (083613)

ALPHA01 S1 = 8.020 BETA0 (2) = -4.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4980	.5780
PNL															
165.000								.6953							
169.000															
174.000								.8019							
180.000	1.3530	.9488	.3382	.2857	.2234	.1834		.7889							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0480						
PNL															
.0000	.1918	-.0631	.1888	.1138	-.3998	-.3265	-.2208								
40.000	.1785	.1537	.2236	.2702	-.1900	-.2971	-.4024								
70.000	-.0714	.1537	-.2181	-.2506	-.1208	-.1272	-.0856								
90.000	-.0325	-.1049	-.2085	-.0483	-.0975	-.1469	-.1778								
105.000			-.1535	-.0166	-.0846	-.1748	-.1932								
110.000															
120.000	-.2335	-.2782	.0295	.3242	-.1215	-.1645	-.1785								
135.000			.1047	.1573	-.2032	-.0399	-.0321								
150.000	-.1337	.0161	.1034	.1597	-.0129	.0124	-.1277								
165.000	-.0900	.1163	.1037	.0940	-.0531										
180.000	-.0644	.0596	.1226	.2077											

ALPHA01 S1 = 8.020 BETA0 (3) = -.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3780	.4980	.5780
PNL															
.0000	1.4390	1.1970	.4936	.1027	.1085	.0700		.0431							
20.000			.5906	.1968	.0855	.2082		-.0384							
40.000			.7104	.3332	.2022	.2299		.0297							
55.000			.7110	.4249	.2966	.1722		.0504							
70.000			.6681	.4156	.2786	.1353		.0394							
80.000	.7183		.8095	.6803	.2348	.1526		.0945							
120.000			.5148	.3329	.2219	.1760		.3229							
140.000			.4104	.3282	.2412	.1924									
150.000								.5948							
151.000								.6455							
156.000								.6432							
165.000															
174.000								.9210							
180.000	1.4380	.9537	.3831	.3199	.2566	.1900		.8389							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PNL															
.0000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(H83813)

ORIG. FUSELAGE

ARC87-716 1A14 02+712+812N25

ALPHAO (S) = 8.020 BETAQ (S) = -.250

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.10	.8230	.8820	.9230	.9650	1.0020	1.0210	1.0480
PHI										
.000	.1472	-.0302	.1217	.0170	-.3751	-.1850	-.2129		-.1006	-.1078
40.000	.1154	.1310	.1824	.1263	-.2264	-.3140	-.4124		-.2427	-.1544
70.000	-.0714	.1386	-.2118	-.2082	-.1303	-.1334	-.1135			
90.000	-.0418	-.0830	-.1949	-.0360	-.1092	-.1680	-.1933			
105.000		-.0419	-.0134	-.1078	-.1903	-.2035	-.2033			
110.000							-.1819			
120.000	-.1256	-.0999	.0949	.2627	-.1451	-.1664	-.1577			
135.000		.1303	.2253	-.1324	-.0380	-.0711				
150.000	-.0591	.0408	.1395	.1905	.0208	-.0094	-.1150			
165.000	-.0379	.1525	.1206	.0145	-.1171					
180.000	-.0365	.0182	.1717	.3041						

ALPHAO (S) = 8.020 BETAQ (S) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.4380	.8825	.0785	.1981	.1807	.0000		.0757		-.0508	-.1952	-.1790	.0118	.0490	.0730
20.000			.2446	.1795	.1713	.0978		-.0795		-.1149	-.1251	-.2032	-.2419	-.0122	-.0620
40.000			.4380	.2206	.1910	.0885		-.0682		-.1360	-.0787	-.2621	-.2618	-.1949	-.1142
55.000			.4593	.2736	.1946	.0575		-.0231		-.0787	-.2379	-.2883	-.2780	-.0859	
70.000			.4759	.2708	.1707	.0787		.0146		.0372	-.2518	-.3696	-.2780	-.1025	
90.000		.1483	.4728	.2708	.1707	.0787		.2669		-.1019	-.1995	-.3737	-.2999	-.2334	-.1673
105.000			.4264	.2755	.1936	.1417			.4988						
140.000			.3958	.2851	.2289	.1681									
155.000								.8820							
165.000									.8093						
180.000										-.2336	-.3821	-.2471	-.2334	-.1780	
195.000															
210.000															
225.000															
240.000															
255.000															
270.000															
285.000															
300.000															
315.000															
330.000															
345.000															
360.000															
375.000															
390.000															
405.000															
420.000															
435.000															
450.000															
465.000															
480.000															
495.000															
510.000															



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 03

ARC97-716 1A14 Q1-T12-S12M25 ORB. FUSELAGE (083813)

ALPHA(5) = 0.050 BETA(4) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB.	.0530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PW1										
120.000	-.0302	-.0333	.1710	.2137	-.1241	-.1203	-.1412	-.1703		
135.000			.2716	.3113	-.0324	-.0335	-.0034			
150.000	-.0299	.0175	.2183	.2980	.0313	-.0212	-.1171			
165.000	-.0299		.1535		.1492	.0034	-.1230			
180.000	-.0801	.0491	.1166	.1945						

ALPHA(5) = 0.080 BETA(5) = 0.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB.	.0000	.0080	.0230	.0470	.0700	.1120	.1560	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PW1															
20.000	1.3360	.5694	-.0222	.0113	-.0307	.0000		-.0162	-.0246	-.1323	-.0199	.0167	.0041	.0431	
40.000		-.0285	.1390	.1010	.0663		-.0506	-.0506	-.1025	-.1241	-.1961	.0995	.0167	.0213	.0921
55.000		.0332	.1535	.1151	.0522		-.0965	-.0686	-.1465						
70.000		.0876	.1432	.1366	.0028		-.0556	-.0556	-.1105	-.2776	-.2262	-.1172	-.0637		
90.000		.1132	.0994	.1167	.0044		-.0222	-.0222	-.0437	-.2794	-.2636	-.1663	-.0311		
120.000	.2237	.1646	.1024	.0937	.0397		.1907		-.0431	-.2953	-.3859	-.2171	-.0311		
140.000		.1632	.1311	.0693	.0954			-.1961	-.2470	-.3645	-.2663	-.2168	-.1089		
160.000		.1746	.1672	.1171	.1074				.3606						
180.000							.6082								
200.000									.5455	-.3035	-.3620	-.2660	-.2241	-.1407	
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

X/LB.	.0530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
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PW1										
120.000	.1336	-.0526	.0931	-.1085	-.3637	-.3702	-.2926		-.0769	.0039
135.000	.1145	.1285	.1007	-.0255	-.2520	-.3473	-.2495		-.0634	-.1303
150.000	-.0529	.1265	-.2040	-.1267	-.1039	-.1254	-.1400			
165.000	-.0132	-.0814	-.1611	-.0599	-.1347	-.1553	-.1599			
180.000		-.0371	-.0806	-.1563	-.1984	-.1679				
200.000							-.2180			
220.000	.0063	-.0221	.1209	.0432	-.2004	-.1937	-.2180			
240.000		.3486	.3225	-.1493	-.1559	-.1992				
260.000	.0063	-.0176	.1711	.2356	-.0071	-.1344	-.2229			
280.000	-.0271	.1110		.0347	-.1052	-.2147				
300.000	-.0322	-.0236	.0932	.2343						

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005814) (18 JAN 74)

008. FUSELAGE

ARC97-716 1A14 Q1+718+812N5

REFERENCE DATA

SRP = 2.4210 SQ.FT. WMP = 29.5000 INCHES
 LRP = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.070. BETA(1) = -7.030

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOILER = .000

SECTION 1 (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.0000	0.0000	0.0230	0.0470	0.0700	0.1120	0.1590	0.1670	0.1760	0.2030	0.2380	0.3010	0.3790	0.4990	0.5760
PHI															
20.000	1.0610	.7678	.3969	.0296	.4819	.0000		.3356		.0801	.0134	.1367	.0660	.0761	.0932
40.000			.4001	.0707	.6062	.1296		.3115		.3828					
60.000			.6001	.0153	.7627	.3277		.2260		.1140	.0749	.1548	.1418	.1222	.1037
80.000			.7604	.9840	.0416	.5176		.3540		.3009					
100.000			.8335	.7395	.7957	.5754		.4126		.3148	.1210	.1218	.1244	.1111	
120.000		1.1040	.8977	.6583	.7081	.6010		.4590		.3950	.1553	.1160	.0937	.0874	
140.000			.9084	.6965	.8060	.6219		.6656		.5394	.0229	.0075	.0368	.0572	
160.000										.5394					
180.000									1.2140	.3517	-.0295	.0073	.0177	.0442	
200.000								1.3960							
220.000								1.3100							
240.000										.1623	.0016	.0006	.0043	.0295	
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															
PHI															
40.000	.1044	-.0012	.0673	.0482	-.1511	-.2066	-.1872								
60.000	.0629	.1590	.1612	.0595	-.0516	-.1216	-.1422								
80.000	.1299	.1590	.0334	.0397	.1254	.1329	.1235								
100.000	.1330	.0974	.0329	.1991	.1528	.1154	.0804								
120.000			.0612	.2145	.1792	.0857	.0618								
140.000															
160.000	.0910	.0974	.3070	.5269	.1256	.1022	.0746								
180.000			.3736	.4410	.0476	.0876	.2101								
200.000	.0775	.0546	.1522	.1403	.1484	.2551	.2749								
220.000	.0330		.0322		.5501	.3619	.2346								
240.000	-.0012	-.0031	-.0228	.2062											



(083814)

ORB. FUSELAGE

ARC97-716 1A14 OL+712+S12M5

ALPHA(1) = -7.880 BETA(3) = .120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2360	.3010	.3760	.4990	.5760
PHI															
120.000			.6039	.4942	.4000	.3594		.3429		.3369	.1006	-.0950	-.0085	.0215	
140.000										.2346					
160.000			.6013	.5025	.5079	.4493				.1630	-.0499	.0086	.0212	.0485	
181.000															
196.000								1.0430							
163.000									1.1600						
169.000										.1524	-.0372	.0298	.0471	.0495	
174.000															
180.000	1.7600	1.0570	.6805	.5930	.5370	.4885	1.0920	1.4320		.0153	-.0275	.0159	.0568	.0486	
X/LB	.6350	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
.000	.0232	.0449	.0296	-.0420	-.1559	-.1420	-.1393								
40.000	-.0106	.0378	.0315	-.0416	-.1564	-.1672	-.1496								
70.000	.0731	.0357	-.0102	.0185	.0566	.0614	.0413								
90.000	.0746	.0554	-.0056	.1206	.0765	.0349	.0073								
105.000			.0610	.0909	.0768	.0129	-.0020								
110.000								-.0157							
120.000	.0447	.0965	.2196	.2675	-.0167	.0161	.0361								
135.000			.4504	.4652	.0357	.0902	.0930								
150.000	.0449	.0473	.2145	.4497	.2097	.1866	.0976								
165.000	.0447		.0306		.3671	.2432	.1112								
180.000	.0449	.0461	.0235	.4126											

ALPHA(1) = -7.880 BETA(4) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2360	.3010	.3760	.4990	.5760
PHI															
.000	1.9930	.7293	.4849	.6471	.2628	.0000		.1764		.1309	.0967	-.0006	-.0051	.0463	.0143
20.000			.4549	.6396	.2796	.0524		.1525		.1363					
40.000			.3943	.6109	.3449	.1049		.0906		.0936	.0970	.0668	.0339	.0554	.0179
55.000			.3806	.5210	.3766	.1440		.0576		.1494					
70.000			.4347	.3566	.3475	.2028		.1233		.1423	.0003	-.0081	-.0031	.0039	
90.000		.6822	.4829	.3009	.2554	.2457		.1532		.1317	-.0453	-.0297	-.0312	.0037	
120.000			.5656	.4201	.3204	.2822		.4517		.2460	.0155	-.1507	-.0470	-.0207	
140.000										.1353					
160.000			.8140	.5479	.4656	.3962				.1266	-.0805	-.0017	.0103	-.0012	
191.000															
196.000								1.1530							
162.000									.7912						
															1.0640



ARC97-716 1A14 ORBITER FUSELAGE (883814)

ALPMAO(1) = -7.980 BETAO(4) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1129 .1590 .1670 .1760 .2050 .2520 .3010 .3790 .4990 .5760

PHI

165.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

169.000

174.000 1.8930 1.0470 .0764 .5962 .9457 .4951 1.1870 1.3920 .0928 -.0421 .0017 .0386 .0073

180.000

180.000 1.8930 1.0470 .0764 .5962 .9457 .4951 1.1870 1.3920 .0928 -.0421 .0017 .0386 .0073

X/LB

.6530 .7300 .7610 .8230 .8820 .9230 .9630 1.0020 1.0210 1.0480

PHI

.0000 .0201 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

40.000

70.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

90.000

105.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

110.000

120.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

135.000

150.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

165.000

180.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

ALPMAO(1) = -8.030 BETAO(5) = 8.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0060 .0230 .0470 .0700 .1120 .1590 .1670 .1760 .2050 .2520 .3010 .3790 .4990 .5760

PHI

.0000 .0201 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

20.000

40.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

55.000

70.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

90.000

120.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

140.000

160.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

180.000

190.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

210.000

220.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

240.000

260.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

280.000

300.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

320.000

340.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

360.000

380.000 .0145 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169 .0169

400.000

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(083814)

ORB. FUSELAGE

ALPHA(1) = -0.030 BETA(1) = 0.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PM1										
.000	-.0026	-.0080	-.0763	-.1370	-.1979	-.2366	-.2256		-.1980	-.1823
40.000	-.0034	-.0301	-.1042	-.1925	-.2447	-.2419	-.2302		-.1634	-.1274
70.000	-.0418	-.0294	-.0333	-.0502	.0509	.0150	-.0062			
90.000	-.0299	-.0294	-.0403	.0668	-.0153	-.0632	-.0740			
105.000			.0327	.0465	-.0422	-.0547	-.0441			
110.000								7.0621		
120.000	-.0017	.0181	.0841	-.0345	-.1554	-.0992	-.1046	-.1366		
135.000			.2196	.3474	-.0378	-.0882	-.1037			
150.000	-.0214	-.0361	.1726	.3197	.1297	.0519	-.0132			
165.000	-.0316		.1646		.1200	.0923	.0025			
180.000	-.0031	-.0085	-.0306	.2133						

ALPHA(2) = -0.030 BETA(1) = -7.780

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PM1															
.000	1.5440	.7388	.4180	.7516	.3647	.0000		.3246	.1979	.2026	.1263	.0093	.0422	.0697	
20.000			.4280	.8139	.5033	.1215		.3119	.3136	.0606	.0459	.0606	.1056	.0970	
40.000			.6193	.8692	.7042	.3410		.1892	.0726	.2640					
55.000			.7492	.9439	.7816	.5049		.3162	.2640	.0627	.0608	.0741	.0560		
70.000			.8872	.7303	.7257	.5526		.3759	.2673	.1222	.0903	.0596	.0410		
90.000	1.0280		.6183	.6434	.6319	.5693		.4133	.3220	.1925	-.0154	-.0171	-.0001		
120.000			.8030	.5934	.5326	.5543		.4599	.4887						
140.000									.3106	-.0727	-.0393	-.0294	-.0171		
150.000			.6922	.5279	.4567	.4723			1.0990						
151.000								1.2300							
156.000									1.1690						
162.000										.1010	-.0330	-.0408	-.0521	-.0171	
165.000															
169.000															
174.000							1.0130								
180.000	1.5440	.9520	.5803	.4501	.3947	.3907		1.1080	.0261	-.0966	-.0901	-.0379	-.0298		

X/LB	.6330	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PM1										
.000	.0932	-.0481	.0474	.3416	-.1537	-.2187	-.2236		-.1860	-.1667
40.000	.0806	.1481	.1524	.0601	-.0332	-.1054	-.1368		-.1929	-.1364
70.000	.0792	.1469	.0017	-.0133	.0729	.0741	.0666			
90.000	.0823	.0447	.0045	.1352	.1030	.0732	.0433			
105.000			.0132	.1616	.1235	.0533	.0305			
110.000								-.0061		



(083814)

ORB. FUSELAGE

ARC97-718 1A14 Q1712+312N25

ALPHA(2) = -4.030 BETA(1) = -7.790

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

N/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PMI										
120.000	.0121	.0191	.2148	.4761	.0925	.0603	.0402	.0176		
135.000		.2328	.3144	-.0036	.0003	.0003	.1444			
150.000	.0124	-.0002	.0705	.0469	.0625	.0390	.2107			
165.000	-.0257	-.0171		.4060	.3025	.1636				
180.000	-.0461	-.0501	-.0596	.1551						

ALPHA(2) = -4.030 BETA(2) = -3.840

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

N/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2930	.3010	.3790	.4960	.5760
PMI														
.000	1.9630	.7143	.3630	.8094	.3970	.0000		.2705	.1799	.1464	.1600	-.0196	.0375	.0409
20.000		.3340	.6266	.5107	.1063			.2615	.2941					
40.000		.4747	.7921	.7063	.2466			.1457	.0713	.0214	.0602	.0296	.0410	.0209
55.000		.5767	.5056	.7051	.3972			.2467	.1869					
70.000		.6379	.4456	.5732	.4596			.2902	.2084	.1761	.0325	.0299	-.0053	
90.000		.6505	.6643	.4621	.4225	.4870		.3565	.2672	.0711	.0306	.0022	-.0055	
120.000		.6699	.5109	.4154	.4230			.5069	.4101	.1111	-.0731	-.0376	-.0056	
140.000		.6391	.5112	.4390	.3990			.3918	.2412	-.0607	-.0455	-.0296	.0042	
150.000									.9767					
151.000								1.0120	1.1470					
156.000								1.1630						
162.000														
165.000								.9485						
169.000														
174.000														
180.000	1.9630	.9470	.5707	.4806	.4215	.3620		1.2020	-.0046	-.0945	-.0196	-.0053	-.0068	

N/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PMI										
.000	.0312	-.0062	.0551	.0063	-.1509	-.2259	-.2337			
40.000	.0122	.0696	.0590	-.0120	-.1004	-.1291	-.1725			
70.000	.0365	.0691	-.0371	-.0060	.0400	.0405	.0254			
90.000	.0436	.0259	-.0316	.0916	.0667	.0364	.0011			
105.000			-.0106	.0607	.0784	.0116	-.0137			
110.000										
120.000	.0189	.0404	.2223	.3667	.0296	.0147	.0042			
135.000			.3070	.3959	-.0059	.0104	.1136			
150.000	.0182	.0194	.1361	.1690	.1166	.1979	.1314			
165.000	-.0064		.0325	.5704	.2457	.1008				
180.000	-.0064	-.0011	.0106	.2736						

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 CR+TIE+S12NE3 CR8. FUSELAGE (003814)

ALPHA(2) = -4.040 BETA(3) = .040															
SECTION (1) ORBITER FUSELAGE															
DEPENDENT VARIABLE CP															
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1580	.1670	.1760	.2050	.2520	.3010	.3790	.4680	.5780
PM1															
.000	1.0280	.7049	.4451	.6798	.2718	.0000		.1822		.1450	.0952	.0407	-.0171	.0518	.0073
20.000			.4400	.7148	.3677	.0964		.1747		.1124	.0486	.0631	.0137	.0110	.0474
40.000			.3757	.6745	.4524	.2247		.0704		.1135					
55.000			.4427	.4167	.4624	.2996		.1858		.1538	-.0049	-.0037	-.0038	-.0474	
70.000			.4947	.3843	.4370	.3436		.2075		.2084	.0194	-.0144	-.0311	-.0384	
90.000	.7032		.5264	.3411	.2920	.2882		.2636		.3432	.0667	-.1116	-.0310	-.0151	
120.000			.5690	.4116	.3201	.3032		.4375		.2452					
140.000			.5651	.4722	.4019	.3497			.8549	.1473	-.0722	-.0423	-.0248	.0083	
150.000								.8816							
160.000								1.0780		.1019	-.0930	-.0091	.0028	.0086	
180.000	1.0630	.8055	.5576	.4729	.4231	.3777	.9232	1.1940		-.0189	-.0722	-.0275	.0183	.0085	
X/LB															
PM1															
.000	.0463	.0002	.0140	-.0498	-.1683	-.2336	-.2390		-.2030	-.1679					
40.000	.0070	.0126	.0060	-.0316	-.1579	-.1639	-.1999		-.2205	1.2116					
70.000	.0220	.0247	-.0514	-.0241	.0060	.0104	.0007								
90.000	.0283	.0019	-.0463	.0313	.0381	-.0013	-.0277								
105.000			.0101	.0474	.0417	-.0173	-.0379								
110.000								-.0359							
120.000	-.0087	.0280	.1680	.2417	-.0302	-.0209	-.0095	-.0229							
135.000			.3554	.4055	-.0071	.0454	.0682								
150.000	-.0062	.0007	.1467	.3412	.1329	.1238	.0573								
165.000	-.0077		-.0128		.3003	.1767	.0605								
180.000	.0000	.0034	-.0171	.3195											
ALPHA(2) = -4.040 BETA(4) = 3.980															
SECTION (1) ORBITER FUSELAGE															
DEPENDENT VARIABLE CP															
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1580	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PM1															
.000	1.5810	.6798	.6863	.5722	.1789	.0070		.1365		.0855	.0552	-.0256	-.0519	.0108	.0023
20.000			.5678	.5598	.1931	.0123		.1219		.1178					
40.000			.4430	.5281	.2789	.0428		.1032		.0797	.0858	.0193	-.0156	.0215	.0508
55.000			.4015	.4609	.3111	.0619		.1302		.0992					
70.000			.3636	.3328	.3091	.1448		.0706		.1137	-.0350	-.0281	-.0316	-.0492	
90.000								.1091		.0927	-.0152	-.0396	-.0360	-.0465	
100.000			.5855	.4047	.2479	.2009									



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03814)

OR8. FUSELAGE

ARC97-716 1A14 01+712+812M5

ALPHA(2) = -4.040 BETA(4) = 3.980

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3780	.4990	.5780
PMI															
120.000			.4678	.3381	.2474	.2381		.3755		.1932	-.0162	-.1673	-.0671	-.0378	
140.000										.1062					
160.000			.4931	.4236	.3572	.3016				.0925	-.1094	-.0473	-.0330	-.0235	
180.000								.9881							
190.000								.9560		.0364	-.0820	-.0465	-.0081	-.0243	
174.000															
160.000															
150.000															
140.000															
130.000															
120.000															
110.000															
100.000															
90.000															
80.000															
70.000															
60.000															
50.000															
40.000															
30.000															
20.000															
10.000															
0.000															

ALPHA(2) = -4.040 BETA(4) = 3.980

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3780	.4990	.5780
PMI															
120.000			.4678	.3381	.2474	.2381		.3755		.1932	-.0162	-.1673	-.0671	-.0378	
140.000										.1062					
160.000			.4931	.4236	.3572	.3016				.0925	-.1094	-.0473	-.0330	-.0235	
180.000								.9881							
190.000								.9560		.0364	-.0820	-.0465	-.0081	-.0243	
174.000															
160.000															
150.000															
140.000															
130.000															
120.000															
110.000															
100.000															
90.000															
80.000															
70.000															
60.000															
50.000															
40.000															
30.000															
20.000															
10.000															
0.000															

ALPHA(2) = -4.040 BETA(4) = 3.980

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3780	.4990	.5780
PMI															
120.000			.4678	.3381	.2474	.2381		.3755		.1932	-.0162	-.1673	-.0671	-.0378	
140.000										.1062					
160.000			.4931	.4236	.3572	.3016				.0925	-.1094	-.0473	-.0330	-.0235	
180.000								.9881							
190.000								.9560		.0364	-.0820	-.0465	-.0081	-.0243	
174.000															
160.000															
150.000															
140.000															
130.000															
120.000															
110.000															
100.000															
90.000															
80.000															
70.000															
60.000															
50.000															
40.000															
30.000															
20.000															
10.000															
0.000															

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OF POOR QUALITY

ARC57-716 1A14 Q1+712+812M25 ORB. FUSELAGE (083814)

ALPHA(1) = -4.000 BETA(1) = 7.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1760	.2050	.2320	.3010	.3760	.4900	.5700
PHI															
165.000															
169.000															
174.000															
180.000															

1.1270

.8070

1.1320

.0044

-.0367

-.0509

-.0396

-.0327

-.0461

-.1063

-.0425

-.0408

-.0488

-.1898

-.1732

-.0990

-.0856

-.0923

-.1295

-.1261

-.1126

-.1041

-.0539

-.0367

-.0319

-.0319

-.0319

-.0319

-.0319

-.0319

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-.0319

-.0319

-.0319

ALPHA(3) = -.180 BETA(1) = -7.810

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1760	.2050	.2320	.3010	.3760	.4900	.5700
PHI															
80.000															
90.000															
95.000															
100.000															

.2491

.2218

.1016

.2852

.3304

.3571

.3491

.4252

.2970

-.1076

-.0941

-.0760

-.0766

.9660

.9707

1.0690

.0517

-.0801

-.0934

-.0975

-.0764

1.0660

.9328

-.0112

-.1269

-.1062

-.0893

-.0732

1.0403



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-T12+312N25 ORB. FUSELAGE (N83814)

ALPHA(1 3) = -.180 BETA(1 2) = -5.880

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0303	-.0104	.1467	.3412	.0081	-.0106	-.0239	-.0453		
135.000		.2055	.3870	-.0419	-.0356	.0535				
150.000	-.0300	-.0143	.0807	.1231	.0401	.1339	.0831			
165.000	-.0305	.0489	.0489	.2766	.1844	.0557				
180.000	-.0369	-.0324	.0829	.1812						

ALPHA(1 3) = -.190 BETA(1 3) = .040

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000	1.3030	.6798	.7013	.5392	.1366	.0000		.1769	.1774	.0730	.0160	-.0419	.0197	-.0016	
20.000			.5743	.5801	.2451	-.0874		.1677	.1940	.0144	.0076	.0282	-.0239	.0015	.0462
40.000			.5101	.5821	.1849			.0361	.0829						
55.000			.4414	.5051	.4037	.2618		.1543	.1109	-.0408	-.0389	-.0334	-.0797		
70.000			.4453	.3950	.3943	.3139		.1689	.1630	-.0003	-.0373	-.0367	-.0799		
90.000		.6415	.4676	.3205	.2968	.3044		.2197	.2851	.0443	-.1292	-.0863	-.0474		
120.000		.4928	.3494	.2681	.2715			.4097	.2491						
140.000		.4656	.3744	.3166	.2672				.1250	-.1009	-.0655	-.0664	-.0293		
150.000								.7426							
151.000								.7616							
158.000									.9656						
162.000									.0610	-.1165	-.0525	-.0365	-.0288		
165.000															
169.000															
174.000															
180.000	1.3030	.7783	.4547	.3749	.3302	.2893		1.0160	-.0476	-.1079	-.0328	-.0242	-.0215		
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
120.000	.0925	-.0307	.0121	-.0370	-.1670	-.2341	-.2299								
40.000	.0203	.0216	.0222	-.0483	-.1362	-.1371	-.1848								
70.000	-.0191	.0361	-.0767	-.0369	-.0261	-.0261	-.0370								
90.000	-.0072	-.0217	-.0739	.0109	.0045	-.0252	-.0313								
105.000			-.0288	.0176	.0039	-.0416	-.0615								
110.000								-.0884							
120.000	-.0311	-.0038	.1284	.2013	-.0253	-.0409	-.0418	-.0350							
135.000		.2637	.3347	-.0358	.0050	.0335									
150.000	-.0307	-.0287	.1087	.2613	.0774	.0750	.0218								
165.000	-.0309	-.0366	-.0366	.2357	.1276	.0215									
180.000	-.0309	-.0299	-.0401	.5336											



(003814)

CRB. FUSELAGE

ALPHA01 3) = -.150 BETA0 (3) = 0.040

SECTION 1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2820	.3010	.3790	.4990	.5760
PMI															
120.000			.3029	.2123	.1343	.1080		.2213		.0720	-.0887	-.2002	-.1153	-.0756	
140.000										.0107					
150.000			.3413	.2692	.2400	.1929				-.0046	-.1531	-.1032	-.0831	-.1063	
151.000								.7011	.4366						
156.000															
162.000															
165.000								.9196	.9400		-.0757	-.1432	-.0828	-.0857	
169.000															
174.000							.6790								
180.000	1.4490	.7402	.4481	.3634	.3188	.2869		.9367		-.0306	-.1259	-.1005	-.0828	-.0778	
X/LB	.6330	.7300	.7610	.8230	.8620	.8230	.9630	1.0020	1.0210	1.0490					

PMI

.000	-.0261	-.0635	-.0850	-.1404	-.2037	-.2316	-.2086		-.1667	-.1697					
40.000	-.0469	-.0647	-.1053	-.1120	-.1905	-.1957	-.1820		-.1124	-.1071					
70.000	-.0396	-.0635	-.0925	-.1132	-.0386	-.0645	-.0757								
80.000	-.0391	-.0643	-.0976	-.0396	-.0630	-.0948	-.1079								
105.000		-.0323	-.0253	-.0761	-.0961	-.0961									
110.000							-.1139								
120.000	-.0713	-.0341	-.0012	-.0352	-.1613	-.1395	-.1163								
135.000		.0993	.2304	-.1014	-.1283	-.1430									
150.000	-.0705	-.0780	.0671	.1865	.0422	-.0396	-.0922								
165.000	-.0993		.0590		.0233	-.0238	-.0765								
180.000	-.0925	-.0915	.0248	.0926											

ALPHA01 4) = 3.950 BETA0 (1) = -7.910

SECTION 1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2820	.3010	.3790	.4990	.5760
PMI															
120.000			.5990	.5613	.2937	.0000		.1849		.0639	.1377	.0402	-.0211	.0299	-.0472
140.000			.7032	.6900	.4902	.0665		.0305		.2031					
150.000			.8736	.7761	.6759	.3534		.0731	-.0034	-.0285	-.0341	.0580	.0482	.0814	
151.000			.9089	.8007	.7060	.4598		.2413	.1917						
156.000			.8433	.7974	.6413	.4543		.2783	.1803	.0120	.0142	.0216	.0340		
162.000			.7036	.7135	.5709	.4365		.3014	.1970	.0433	.0340	.0020	.0110		
165.000	.8821		.6442	.5409	.4296	.3596		.2686	.3294	.1116	-.0370	-.1049	-.1408		
180.000									.3432						
180.020			.4833	.3709	.3241	.2737		.8279		.2302	-.1370	-.1495	-.1199	-.1301	
191.000								.8393							
196.000															
198.000								.9188							



(083014)

ORB. FUSELAGE

ARC97-716 1A14 QX+712+512N25

ALPHA(1) 4) = 3.930 BETA(1) = -7.910

SECTION 1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1590 .1670 .1780 .2030 .2520 .3010 .3790 .4990 .5780

PNI

165.000
169.000
174.000
180.000 1.3230 .8762 .3485 .2707 .2421 .2145 .6643 .9481
185.000 .6530 .7300 .7910 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PNI

1045 -.1196 .1100 .0629 -.1601 -.2214 -.2195
10805 .1620 .2149 .0934 .0949 -.0243 -.1361
10900 .0201 .1695 -.0564 -.0730 -.0106 -.0216
10900 .0170 .0327 -.0613 -.0523 .2496 -.0012 -.0294
105.000 -.0364 .1012 .0775 -.0080 -.0316
110.000
120.000 -.1630 -.1731 -.0393 .4177 .0333 -.0065 -.0293
135.000 -.0822 .0856 -.1296 -.0565 .0049
130.000 -.1682 -.1234 -.0996 -.1037 -.1231 -.1236 -.0910
165.000 -.1536 -.0337 .1860 .1935 .1190
180.000 -.1348 -.1014 -.0017 .0446

ALPHA(1) 4) = 3.930 BETA(1) = -3.960

SECTION 1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1590 .1670 .1780 .2030 .2520 .3010 .3790 .4990 .5780

PNI

1.4540 .7864 .6645 .6042 .1493 .0000 .2479 .1468 .1020 .0742 -.1009 -.0145 .0232
20.000 .6980 .7232 .2723 .0345 .1904 .2532
40.000 .7067 .7932 .4611 .2183 .0320 -.0054 .0019 .0554 -.0060 .0013 .0032
55.000 .6669 .7509 .5687 .3301 .1731 .1034
70.000 .6067 .6014 .3262 .3506 .2069 .1099 -.0490 -.0554 -.0288
90.000 .7130 .5735 .4946 .4604 .3564 .2320 .1408 -.0051 -.0237 -.0446 -.0355
120.000 .5325 .3934 .3498 .3226 .2440 .2646 .0576 -.0985 -.1193 -.1130
140.000 .4405 .3277 .2856 .1476 -.1407 -.1265 -.1191 -.0744
150.000 .7783
151.000 .8554
156.000 .8943
162.000 .0195 -.1294 -.1263 -.1074 -.0703
165.000 .9213
169.000 .7046
174.000 .8651
180.000 1.4540 .6786 .3630 .2802 .2439 .2240 .0651
185.000 .6530 .7300 .7910 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480
190.000 .0633 -.1345 -.1014 -.0807 -.0602

00038141

ORB. FUSELAGE

ALPHA(4) = 3.930 BETA(2) = -3.980

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8830	.8820	.9230	.9630	1.0020	1.0210	1.0480
C_{M1}										
.000	.0443	-.0808	.0807	.0231	-.1884	-.2308	-.2315		-.1757	-.1275
40.000	.0407	.0768	.1279	.0586	-.0091	-.0609	-.1565		-.1976	-.2282
70.000	-.0273	.1098	-.0947	-.1031	-.0267	-.0236	-.0463			
90.000	-.0302	-.0063	-.0887	.0027	.0192	-.0170	-.0458			
105.000		-.0767	.0534	.0490	-.0276	-.0360				
110.000							-.0895			
120.000	-.0843	-.0783	.0759	.3113	.0073	-.0313	-.0435			
135.000		.1056	.1839	-.0774	-.0789	-.0190				
150.000	-.0943	-.0483	.0323	.0496	-.0272	.0672	.0333			
165.000	-.0937	.0390		.1655	.1097	.0241				
180.000	-.0809	-.0368	.1306							

ALPHA(4) = 3.940 BETA(3) = .030

SECTION 11 ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
C_{M1}															
.000	1.4030	.8922	.7923	.3931	.0610	.0000		.1861	.1400	.0581	.0020	-.0581	-.0471	.0267	
20.000		.7611	.4868	.1327	.0231			.1769	.2105	.0116	.0325	.0186	-.0335	-.0088	.0494
40.000		.6663	.3251	.3015	.1066			.1074	.0116	.0325	.0186	-.0335	-.0088		
55.000		.5833	.4808	.3425	.1977			.1237	.0687						
70.000		.5218	.4038	.3069	.2418			.1356	.0713	-.0640	-.0631	-.0500	-.0914		
90.000	.5873	.4776	.3597	.2729	.2836			.1679	.1046	-.0301	-.0344	-.0709	-.0917		
120.000		.4323	.3202	.2404	.2328			.2902	.2337	.0138	-.1348	-.1266	-.0772		
140.000		.3796	.3010	.2462	.2199			.6733	.2129	-.1276	-.1215	-.1014	-.0399		
150.000								.7282							
156.000									.8405						
162.000										.0277	-.1356	-.0929	-.0728	-.0373	
165.000															
169.000								.8913							
174.000					.7078										
180.000	1.4030	.8833	.3973	.2889	.2335	.2235		.9370	-.0717	-.1271	-.0779	-.0619	-.0330		
X/LB	.6330	.7300	.7810	.8830	.8820	.9230	.9630	1.0020	1.0210	1.0480					
C_{M1}															
.000	.0987	-.0340	.0334	-.0237	-.1686	-.2321	-.2203		-.1119	-.1275					
40.000	.0378	.0771	.0281	.0210	-.0991	-.1006	-.1778		-.2072	-.2129					
70.000	-.0489	.0779	-.0986	-.0772	-.0606	-.0584	-.0671								
90.000	-.0359	-.0272	-.0987	-.0096	-.0259	-.0332	-.0780								
105.000		-.0358	-.0096	-.0174	-.0611	-.0638									
110.000							-.1832								



ARC97-716 1A14 Q1+712+812M25

ORB. FUSELAGE

(R83814)

ALPHA(1 4) = 3.940 BETA(1 3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.8530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PW1										
120.000	-.0501	-.0305	.0768	.1626	-.0370	-.0594	-.0624	-.0742		
135.000			.1397	.2341	-.0574	-.0030	.0028			
150.000	-.0501	-.0445	.0882	.1948	.0505	.0382	-.0141			
165.000	-.0501		-.0067	.1688	.0767	-.0192				
180.000	-.0532	-.0467	-.0382	.2242						

ALPHA(1 4) = 3.940 BETA(1 4) = 3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.8000	.0080	.0230	.0470	.0700	.1120	.1580	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PW1															
120.000	1.3270	.9928	.6548	.1640	.0230	.0000		.1364	.0460	.0015	-.0434	-.0762	-.0227	-.0138	
20.000			.6342	.2611	.0516	.0722		.0969	.0909						
40.000			.5245	.3406	.1900	.0298		.0965	.0364	-.0226	-.0599	-.0750	.0436	.0382	
55.000			.4356	.3047	.2174	.0855		.0766	.0352						
70.000			.3824	.2836	.2036	.0841		.0873	.0279	-.0807	-.0804	-.0920	-.1176		
90.000		.4568	.3614	.2676	.1888	.1232		.1242	.0712	-.0601	-.0635	-.1099	-.1164		
120.000			.3385	.2499	.1806	.1334		.2372	.1672	-.0318	-.1678	-.1198	-.0932		
140.000									.0519						
160.000			.3230	.2671	.2215	.1751			.0192	-.1588	-.1002	-.0854	-.0743		
180.000								.6411	.5232						
195.000									.7611						
162.000										-.0422	-.1472	-.0973	-.0694	-.0748	
169.000															
174.000									.8928						
180.000									.8900						
180.000	1.3270	.8864	.5648	.2930	.2347	.2236									
X/LB	.8530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PW1

120.000	.0307	-.0665	.0290	-.0496	-.1950	-.2206	-.1888								
40.000	.0868	.0065	.0092	-.0001	.1144	-.1802	-.2175								
70.000	-.0572	.0249	-.1074	-.0843	-.0763	-.0714	-.0799								
90.000	-.0444	-.1480	-.1108	-.0520	-.0406	-.0726	-.0896								
105.000			-.0520	-.0419	-.0396	-.0780	-.0935								
110.000															
120.000	-.0611	-.0393	.0569	.0936	-.0896	-.0804	-.0795	-.1144							
135.000			.2098	.3001	-.0639	-.0552	-.0542								
150.000	-.0611	-.0688	.1116	.2086	.0135	-.0266	-.0715								
165.000	-.0665		.0828		.0785	.0220	-.0395								
180.000	-.0665	-.0596	.0599		.1013										

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083814)

ORB. FUSELAGE

ARC97-716 1A14 Q8+712+812MS

ALPHA(1 4) = 3.950 BETA(1 5) = 0.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PNT															
0000	1.3120	1.0410	.5766	-.0720	-.0175	.0000		.0668		-.0159	.0174	-.0262	-.0218	-.0814	-.0576
20.000		.5029	-.0107	-.0710	.1454			.0366		-.0166		-.0625	-.0832	-.0240	-.0617
40.000		.3861	-.0429	-.0311	.1124			.0317		.0247	-.0180				
60.000		.2848	-.0776	.0077	.0136			.0365		-.0043					
80.000		.2461	.1146	.0339	-.0033			.0245		.0427	-.0851	-.1015	-.1102	-.1083	
100.000		.3992	.2966	.1486	.0537	.0132		-.0004		.0377	-.0969	73	-.1301	-.1184	
120.000		.2432	.1735	.1001	.0703			.1565		.0251	-.1094	-.1672	-.1167	-.1092	
140.000		.2490	.2164	.1759	.1320				.3312	-.0405	-.1753	-.1566	-.1170	-.1061	
160.000								.5634							
180.000									.6999	-.1032	-.1692	-.1223	-.1170	-.1186	
200.000								.7365							
220.000								.7451		-.0655	-.1521	-.1380	-.1310	-.1183	
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
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740.000															
760.000															
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820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

ALPHA(1 5) = 0.090 BETA(1 1) = -0.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PNT															
0000	1.2080	.8294	.7421	.5051	.2228	.0000		.1492		.0338	.0525	.0263	-.0039	.0336	.0603
20.000		.6252	.6247	.4030	-.0207			-.0365		.0794					
40.000		.9514	.7647	.6961	.2717			.0119		-.0490	-.0837	.0074	.0711	.0602	.0566
60.000		.9601	.8462	.7312	.3901			.1776		.1350					
80.000		.8693	.7631	.6256	.3990			.2237		.1278	-.0350	-.0408	.0033	.0513	
100.000		.6791	.7634	.6662	.5253	.3759		.2612		.1566	-.0041	-.0182	-.0107	.0276	



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 81

ARC97-716 1A14 Q1-T18-S12NE3 (083814)

OBS. FUSELAGE

ALPHA(5) = 0.000 BETA(1) = -0.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PMI															
120.000			.0201	.0879	.3429	.2565		.2156		.2541	.0740	-.0722	-.1439	-.1669	
140.000										.2722					
150.000			.0343	.2528	.2308	.1800				.1842	-.1634	-.1746	-.1710	-.1683	
151.000										.6680					
156.000								.7081							
162.000								.7413							
165.000									-.0431	-.1539	-.1531	-.1627	-.1603		
169.000															
174.000															
180.000	1.2040	.5677	.2908	.2002	.1637	.1395	.5825		-.0895	-.1761	-.1856	-.1321	-.1356		
X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0488					

PMI

40.000	.0875	-.1327	.1126	.0742	-.1741	-.2147	-.2091		-.1935	-.1850					
70.000	.0672	.1985	.2343	.1071	.1618	-.0131	-.1403		-.1930	-.2101					
90.000	.0282	.1902	-.0579	-.0632	-.0478	-.0228	-.0451								
105.000	.0262	.0373	-.0615	-.0762	.0273	-.0291	-.0546								
110.000		-.0665	.0809	.0447	-.0335	-.0582		-.0934							
120.000	-.1884	-.1971	-.1344	.3299	-.0056	-.0420	-.0824	-.0915							
135.000		-.1737	-.0379	-.1311	-.0826	-.0475									
150.000	-.1889	-.1853	-.1457	-.0808	-.1602	-.1716	-.2030								
165.000	-.1478	-.1228		.0237	.1409	.0975									
180.000	-.1459	-.1225	-.0681	.0164											

ALPHA(5) = 0.000 BETA(2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PMI															
20.000	1.3490	1.0660	.6324	.3802	.0205	.0000		.1781		.0960	.0590	-.0339	-.1048	-.0180	.0344
40.000			.8632	.5440	.1421	-.0279		.0039		.1030					
55.000			.8861	.7361	.4045	.1656		-.0279		-.0949	-.0667	.0228	.0433	.0147	.0250
70.000			.7694	.7165	.5337	.2909		.1278		.0499					
90.000			.6934	.6349	.4861	.2991		.1657		.0677	-.0843	-.0848	-.0344	-.0008	
120.000	.7274		.6128	.5909	.4281	.2860		.1729		.0916	-.0404	-.0541	-.0777	-.0294	
140.000			.5037	.3938	.3018	.2374		.1507		.2103	.0219	-.1099	-.1306	-.1618	
150.000								.2199		.1138	-.1665	-.1642	-.1306	-.1094	
151.000			.3720	.2644	.2336	.1944			.6397						
156.000								.6750							
162.000									.7551						

(M83014)

ORIG. FUSELAGE

ARC97-716 1A14 Q1+712+312N25

ALPHA(5) = 0.000 BETA(2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1500 .1670 .1700 .2030 .2520 .3010 .3700 .4900 .5700

PHI

105.000 .0634 -.0934 .1170 .0941 -.1659 -.2260 -.2278

100.000 .0503 .1354 .1629 .1167 .0191 -.0545 -.1533

174.000 .0202 .1933 .1010 -.1144 -.0702 -.0489 -.0710

180.000 1.3400 .9851 .2700 .2203 .1940 .1759 .5707

90.000 .0216 .0127 -.1017 -.1046 -.0014 -.0436 -.0710

105.000 -.1010 .0400 .0266 -.0465 -.0790

110.000

120.000 -.1854 -.1810 -.0667 .3400 -.0111 -.0543 -.0715

135.000 .0503 .1354 .1629 .1167 .0191 -.0545 -.1533

150.000 -.1433 -.0791 .0063 .0161 -.0256 -.0070 -.0750

165.000 -.1113 .0003 .0631 .0606 .0196

180.000 -.0943 -.0740 .0049 .0668

110.000

120.000

135.000

150.000

165.000

180.000

110.000

120.000

135.000

150.000

165.000

180.000

110.000

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165.000

180.000

110.000

120.000

135.000

150.000

165.000

180.000

110.000

120.000

135.000

150.000

ALPHA(5) = 0.000 BETA(3) = .000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0230 .0470 .0700 .1120 .1500 .1670 .1700 .2030 .2520 .3010 .3700 .4900 .5700

PHI

105.000 1.3130 1.1200 .6633 .0414 -.0267 .0000 .1499

100.000 .0513 .3633 .0651 -.1510 .1413

174.000 .7464 .4981 .3001 .0323 -.0247

180.000 .5322 .4501 .1708 .0722

90.000 .5403 .3914 .1932 .0946

105.000 .5684 .4913 .2961 .2131 .1145

120.000 .4016 .2783 .1990 .2072 .0567

140.000 .3038 .2322 .1673 .1843

150.000 .3038 .2322 .1673 .1843

165.000 .6443 .5915

180.000 .7333 .5957

110.000 .7333 .5957

120.000 .7333 .5957

135.000 .7333 .5957

150.000 .7333 .5957

165.000 .7333 .5957

180.000 .7333 .5957

110.000 .7333 .5957

120.000 .7333 .5957

135.000 .7333 .5957

150.000 .7333 .5957

165.000 .7333 .5957

180.000 .7333 .5957

110.000 .7333 .5957

120.000 .7333 .5957

135.000 .7333 .5957

150.000 .7333 .5957

165.000 .7333 .5957

180.000 .7333 .5957

110.000 .7333 .5957

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 83

R03B14)

ORB. FUSELAGE

ARC97-716 1A14 Q1+712+512N25

ALPHA0(3) = 0.080 BETA0(3) = .000

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0750	-.0882	.0986	.0635	-.1853	-.2355	-.2167			
40.000	.0754	.0354	.0713	.1039	-.0706	-.1037	-.1961		-.1226	-.1234
70.000	-.0756	.0900	-.1292	-.1456	-.0916	-.0666	-.1116		-.2208	-.2569
90.000	-.0569	-.0367	-.1287	-.0616	-.0354	-.0756	-.1098			
105.000		-.1132	-.3972	-.0165	-.0614	-.1147				
110.000							-.1413			
120.000	-.0670	-.0884	.0373	.2409	-.0532	-.1878	-.0947			
135.000			.0215	.1253	-.1076	-.1226	-.0291			
150.000	-.0677	-.0650	.0344	.0949	.0284	-.0037	-.0434			
165.000	-.0877		.0103		.1153	.0266	-.0364			
180.000	-.0884	-.4300	-.0349	.2164						

ALPHA0(3) = 0.080 BETA0(4) = 4.010

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1580	.1670	.1760	.2050	.2520	.3010	.3780	.4980	.5760
PHI															
.000	1.3010	1.1590	.4183	-.0097	.0360	.0000		.1023	.0234	-.0150	-.0569	-.0741	-.0087	.0248	
20.000		.5044	.1021	.0382	.1743		.0498	.0749							
40.000		.4998	.2527	.1780	.0947		.0761	-.0003	-.0273	-.0683	-.1050	.0559	.0725		
55.000			.3996	.2539	.1988	.1103		.0622	-.0003						
70.000			.3491	.2594	.1814	.1504	.0579	.0120	-.1069	-.1069	-.1154	-.1370			
90.000		.4328	.3421	.2516	.1549	.1659	.0868	.0491	-.0734	-.0990	-.1261	-.1435			
120.000			.3075	.2181	.1396	.1159	.2645	.1316	-.0531	-.1704	-.1483	-.1174			
140.000								.0856							
150.000		.2601	.2163	.1686	.1191			.0096	-.1612	-.1304	-.1106	-.0569			
151.000								.5806	.4842						
156.000									.6461						
162.000										-.0515	-.1598	-.1101	-.0987	-.0563	
165.000															
169.000								.7034							
174.000						.5363									
180.000	1.3010	.5351	.2651	.2170	.1879	.1611	.7303								
X/LB	.6530	.7500	.7610	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0561	-.0804	.0675	-.0019	-.1825	-.1992	-.1650								
40.000	.0899	.0631	.0902	.0434	-.0943	-.1550	-.2113		-.1268	-.1345					
70.000	-.0708	.0631	-.1225	-.0890	-.0914	-.0882	-.0927		-.1802	-.1235					
90.000	-.0941	-.0486	-.1119	-.0447	-.0479	-.0806	-.1019								
105.000			-.0495	-.0296	-.0467	-.0826	-.0961								
110.000								-.1210							

(R283814)

CRB. FUSELAGE

ARC97-716 1A14 Q1+T12+S12M23

$$\text{ALPHA}(\text{S}) = 0.000 \quad \text{BETA}(\text{I}) = 4.010$$

SECTION (1) ORBITER FUSLAGE

PA1	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	PA10	PA11	PA12	PA13	PA14	PA15	PA16	PA17	PA18	PA19	PA20	PA21	PA22	PA23	PA24	PA25	PA26	PA27	PA28	PA29	PA30	PA31	PA32	PA33	PA34	PA35	PA36	PA37	PA38	PA39	PA40	PA41	PA42	PA43	PA44	PA45	PA46	PA47	PA48	PA49	PA50	PA51	PA52	PA53	PA54	PA55	PA56	PA57	PA58	PA59	PA60	PA61	PA62	PA63	PA64	PA65	PA66	PA67	PA68	PA69	PA70	PA71	PA72	PA73	PA74	PA75	PA76	PA77	PA78	PA79	PA80	PA81	PA82	PA83	PA84	PA85	PA86	PA87	PA88	PA89	PA90	PA91	PA92	PA93	PA94	PA95	PA96	PA97	PA98	PA99	PA100	PA101	PA102	PA103	PA104	PA105	PA106	PA107	PA108	PA109	PA110	PA111	PA112	PA113	PA114	PA115	PA116	PA117	PA118	PA119	PA120	PA121	PA122	PA123	PA124	PA125	PA126	PA127	PA128	PA129	PA130	PA131	PA132	PA133	PA134	PA135	PA136	PA137	PA138	PA139	PA140	PA141	PA142	PA143	PA144	PA145	PA146	PA147	PA148	PA149	PA150	PA151	PA152	PA153	PA154	PA155	PA156	PA157	PA158	PA159	PA160	PA161	PA162	PA163	PA164	PA165	PA166	PA167	PA168	PA169	PA170	PA171	PA172	PA173	PA174	PA175	PA176	PA177	PA178	PA179	PA180	PA181	PA182	PA183	PA184	PA185	PA186	PA187	PA188	PA189	PA190	PA191	PA192	PA193	PA194	PA195	PA196	PA197	PA198	PA199	PA200	PA201	PA202	PA203	PA204	PA205	PA206	PA207	PA208	PA209	PA210	PA211	PA212	PA213	PA214	PA215	PA216	PA217	PA218	PA219	PA220	PA221	PA222	PA223	PA224	PA225	PA226	PA227	PA228	PA229	PA230	PA231	PA232	PA233	PA234	PA235	PA236	PA237	PA238	PA239	PA240	PA241	PA242	PA243	PA244	PA245	PA246	PA247	PA248	PA249	PA250	PA251	PA252	PA253	PA254	PA255	PA256	PA257	PA258	PA259	PA260	PA261	PA262	PA263	PA264	PA265	PA266	PA267	PA268	PA269	PA270	PA271	PA272	PA273	PA274	PA275	PA276	PA277	PA278	PA279	PA280	PA281	PA282	PA283	PA284	PA285	PA286	PA287	PA288	PA289	PA290	PA291	PA292	PA293	PA294	PA295	PA296	PA297	PA298	PA299	PA300	PA301	PA302	PA303	PA304	PA305	PA306	PA307	PA308	PA309	PA310	PA311	PA312	PA313	PA314	PA315	PA316	PA317	PA318	PA319	PA320	PA321	PA322	PA323	PA324	PA325	PA326	PA327	PA328	PA329	PA330	PA331	PA332	PA333	PA334	PA335	PA336	PA337	PA338	PA339	PA340	PA341	PA342	PA343	PA344	PA345	PA346	PA347	PA348	PA349	PA350	PA351	PA352	PA353	PA354	PA355	PA356	PA357	PA358	PA359	PA360	PA361	PA362	PA363	PA364	PA365	PA366	PA367	PA368	PA369	PA370	PA371	PA372	PA373	PA374	PA375	PA376	PA377	PA378	PA379	PA380	PA381	PA382	PA383	PA384	PA385	PA386	PA387	PA388	PA389	PA390	PA391	PA392	PA393	PA394	PA395	PA396	PA397	PA398	PA399	PA400	PA401	PA402	PA403	PA404	PA405	PA406	PA407	PA408	PA409	PA410	PA411	PA412	PA413	PA414	PA415	PA416	PA417	PA418	PA419	PA420	PA421	PA422	PA423	PA424	PA425	PA426	PA427	PA428	PA429	PA430	PA431	PA432	PA433	PA434	PA435	PA436	PA437	PA438	PA439	PA440	PA441	PA442	PA443	PA444	PA445	PA446	PA447	PA448	PA449	PA450	PA451	PA452	PA453	PA454	PA455	PA456	PA457	PA458	PA459	PA460	PA461	PA462	PA463	PA464	PA465	PA466</
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ALPHA(5) = 0.110 BETA(5) = 0.000

SECTION () ORRITER FUSELAGE

[illegible]

Pay	-.0321	-.1232	.0339	-.0220	-.1922	-.2011	-.2215	-.1994	-.2069
.000	.0042	.0707	.0871	.0393	-.0931	-.1090	-.2028	-.0607	-.0641
40.000	-.0668	.0690	-.1116	.1063	-.0994	-.0942	-.0801		
70.000	-.0391	-.0319	-.1213	.1060	-.0670	-.1027	-.1117		
90.000			-.0928	-.0364	-.0828	-.1122	-.1176		
105.000								-.0949	
110.000									
120.000	-.0793	-.0267	.0366	.0360	-.1273	-.1115	-.1077	-.0600	
130.000			.0790	.1593	-.0348	-.0906	-.1125		
150.000	-.0600	-.1068	-.0420	.0395	-.0170	-.1008	-.1300		
165.000	-.1211		-.0332		-.0793	-.1156	-.1411		
180.000	-.1242	-.1332	-.0724	-.0104					

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A149 - VOL. 2

PAGE 04

ARC97-716 1A14 01+712+312MS+AT11 FUS+RUOFL BASE

R05C11) (10 JAN 74)

REFERENCE DATA

SREF = 2.4210 30.FT. XREF = 29.5000 INCHES
 LREF = 30.7000 INCHES YREF = .0000 INCHES
 BREF = 30.7000 INCHES ZREF = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.920 BETA(1) = -7.970

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2065 -.2313 -.3363 -.2313 -.1661

ALPHA(1) = -7.920 BETA(2) = -4.300

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO .0000 2.0000 3.0000 4.0000 5.0000

.000 -.1671 -.2120 -.2939 -.1490 -.1341

ALPHA(1) = -7.980 BETA(3) = -.130

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1996 -.2273 -.3040 -.1041 -.1369

ALPHA(1) = -7.970 BETA(4) = 3.810

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1708 -.1962 -.2540 -.0367 -.0977

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
 RUDDER = .000 SPOILER = .000

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01+712+812NE5+AT11 FUS+RUOFL BASE (083C11)

ALPHA(1) = 7.990 BETA(1) = 7.780
SECTION (1) FUS. + RFLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1769 -.2014 -.2436 .0228 -.0629

ALPHA(2) = -4.020 BETA(1) = -7.820
SECTION (1) FUS. + RFLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1963 -.2303 -.3010 -.2946 -.1690

ALPHA(2) = -4.020 BETA(2) = -4.110
SECTION (1) FUS. + RFLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1967 -.2116 -.2549 -.1612 -.1539

ALPHA(2) = -4.030 BETA(3) = -.140
SECTION (1) FUS. + RFLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2003 -.2221 -.2739 -.1374 -.1741

ALPHA(2) = -4.030 BETA(4) = 3.760
SECTION (1) FUS. + RFLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1740 -.1926 -.2203 -.0739 -.1284



ARC97-716 1A14 CR+718+312MS+AT11 FUS+RUDPL BASE

(R83C11)

ALPHA0(2) = -4.040 BETA0(5) = 7.760

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1903 -.2220 -.2187 -.0249 -.0932

ALPHA0(3) = -.800 BETA0(1) = -7.920

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1948 -.2267 -.2768 -.3124 -.2076

ALPHA0(3) = -.200 BETA0(2) = -4.100

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1811 -.2087 -.2187 -.1807 -.1734

ALPHA0(3) = -.810 BETA0(3) = -.170

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1735 -.1828 -.1944 -.1563 -.1878

ALPHA0(3) = -.810 BETA0(4) = 3.810

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1735 -.1936 -.2047 -.1066 -.1923

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DATE 27 JAN 75 TABULATED PRESSURE DATA - TAI48 - VOL. 2

ARC97-718 TAI48 QI+718+SIEN25+AT11 FUS+RUOFL BASE

(M89C11)

ALPHA(3) = -.810 BETA(9) = 7.740
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1988 -.2336 -.2151 -.0608 -.1059

ALPHA(4) = 3.940 BETA(1) = -7.880

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1876 -.2234 -.2551 -.3347 -.2205

ALPHA(4) = 3.920 BETA(2) = -4.130

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1800 -.2071 -.1676 -.1982 -.2200

ALPHA(4) = 3.920 BETA(3) = -.180

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1563 -.1798 -.1457 -.1885 -.2194

ALPHA(4) = 3.930 BETA(4) = 3.770

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1586 -.1814 -.1601 -.1351 -.1676



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC07-716 1A14 01+716+512N23+AT11 FUS+RUOFL BASE (RB3C11)

ALPHA(4) = 3.940 BETA(5) = 7.740
SECTION (1) FUS. + N²LARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 --.1976 --.2292 --.2103 --.1015 --.1284

ALPHA(5) = 8.040 BETA(1) = -7.930
SECTION (1) FUS. + N²LARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 --.1953 --.2392 --.2192 --.3392 --.2358

ALPHA(5) = 8.030 BETA(2) = -4.180
SECTION (1) FUS. + N²LARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 --.1889 --.2164 --.1889 --.2251 --.2334

ALPHA(5) = 8.030 BETA(3) = -.190
SECTION (1) FUS. + N²LARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 --.1900 --.1725 --.1377 --.2076 --.2275

ALPHA(5) = 8.030 BETA(4) = 3.840
SECTION (1) FUS. + N²LARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 --.1821 --.1847 --.1817 --.1637 --.1937

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 90

ARC97-716 1A14 Q2+T12+S12M25+AT11 FUS+RUFL BASE

(R85C11)

ALPHA(5) = 0.000 BETA(5) = 7.000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.0000 -.1937 -.5139 -.1920 -.1191 -.1516



ARC97-716 1A14 Q1-T12-S12N3-A711 FUS+RUOFL BASE (083C12) (18 JAN 74)

PARAMETRIC DATA
 MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDRK = .000

REFERENCE DATA

REF = 2.4210 34.71. 2MRP = 29.5000 INCHES
 LREF = 34.7090 INCHES YMRP = .0000 INCHES
 BREF = 39.7050 INCHES 2MRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.960 BETA(1) = -7.960

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1210 -.1348 -.2055 -.0967 .0361

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1319 -.1461 -.2051 .0215 .0183

ALPHA(1) = -7.960 BETA(3) = -.050

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1220 -.1392 -.1851 .0745 .0126

ALPHA(1) = -8.000 BETA(4) = 3.900

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1342 -.1522 -.1891 .1443 .0666

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 92

ARC97-716 1A14 Q3-712-312N5-A711 FUS+RUDPL BASE

003C121

ALPHA01 1) = -8.030 BETA0 (5) = 7.880

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1423 -.1574 -.1732 .2055 .1273

ALPHA01 2) = -4.030 BETA0 (1) = -7.960

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 3.0000 3.0000 4.0000 5.0000

.000 -.1245 -.1424 -.2076 -.1240 .0011

ALPHA01 2) = -4.030 BETA0 (2) = -3.960

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1393 -.1972 -.2009 -.0179 -.0221

ALPHA01 2) = -4.040 BETA0 (3) = -.080

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1325 -.1346 -.1655 .0250 -.0237

ALPHA01 2) = -4.030 BETA0 (4) = 3.930

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1473 -.1633 -.1878 .0787 .0146



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83C12)

ARC97-716 1A14 Q1+T12+S12H25-AT11 FUS+RUDPL BASE

ALPHA(2) = -4.070 BETA(3) = 7.030
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1497 -.1711 -.1027 .1539 .0651

ALPHA(3) = -.200 BETA(1) = -7.040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1343 -.1572 -.2140 -.1503 -.0323

ALPHA(3) = -.200 BETA(2) = -4.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1402 -.1710 -.2193 -.0694 -.0591

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1435 -.1612 -.1948 -.0120 -.0595

ALPHA(3) = -.210 BETA(4) = 3.600

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1474 -.1650 -.1853 .0496 -.0192

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 94

ANC97-716 1A14 Q1+T12+S12NEB+T11 FUS+RUOFL BASE

(R35C12)

ALPHA(3) = -.220 BETA(3) = 7.660
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1444 -.1733 -.1794 .1176 .0479
ALPHA(4) = 3.920 BETA(4) = -8.020
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1323 -.1603 -.2013 -.1723 -.0632
ALPHA(4) = 3.930 BETA(4) = -4.040
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1410 -.1603 -.1992 -.0872 -.0601
ALPHA(4) = 3.930 BETA(4) = -.070
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1251 -.1499 -.1824 -.0334 -.0811
ALPHA(4) = 3.940 BETA(4) = 3.660
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1450 -.1628 -.1567 .0170 -.0329



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01+T12+S12N5+AT11 FUS+RUOFL BASE (R83C12)

ALPHA(4) = 3.940 BETA(5) = 7.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1423 -.1675 -.1761 .0624 .0052

ALPHA(5) = 6.050 BETA(1) = -9.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1366 -.1637 -.1941 -.1814 -.0757

ALPHA(5) = 6.050 BETA(2) = -4.060

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1366 -.1637 -.1821 -.1044 -.0965

ALPHA(5) = 6.050 BETA(3) = -.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1317 -.1524 -.1664 -.0520 -.0962

ALPHA(5) = 6.050 BETA(4) = 3.940

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1411 -.1614 -.1465 .0040 -.0749

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DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 96

ARCS7-736 1A14 OI+712+312N25-AT11 FUS+RUDPL BASE (R83C12)

ALPHA(S) = 0.110 BETA(S) = 7.940

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1406 -.1721 -.1728 .0015 -.0154



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83C13) (19 JAN 74)

FUS+RUOFL BASE

ARC97-716 1A14 01-112+312N25

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

REF = 2.4210 36. FT. XMRP = 29.3800 INCHES
LREF = 36.7050 INCHES YMRP = .0070 INCHES
BREF = 36.7050 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -0.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0026 -.0327 -.3473 -.2516 -.1024

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1928 -.2185 -.3102 -.1617 -.1590

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0045 -.0260 -.3030 -.0662 -.1309

ALPHA(1) = -7.960 BETA(4) = 4.820

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0097 -.0303 -.3044 -.0306 -.1027

083C13)

FUS+RUDFL BASE

ARC97-716 1A14 Q1+712+512M25

ALPHA(1) = -7.990 BETA(5) = 0.150

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2266 -.2476 -.2848 .0112 -.0676

ALPHA(2) = -4.020 BETA(1) = -7.970

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2061 -.2365 -.3434 -.2991 -.1889

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1917 -.2198 -.2848 -.1953 -.1907

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1990 -.2203 -.2712 -.1405 -.1734

ALPHA(2) = -4.030 BETA(4) = 4.120

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2003 -.2323 -.2847 -.0770 -.1266



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(MBSC13)

FUS+RUDPL BASE

ARC97-716 1A14 CR+T12+S12N25

ALPHA(2) = -4.020 BETA(3) = 7.990

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2290 -.2572 -.2791 -.0469 -.0900

ALPHA(3) = -.190 BETA(1) = -6.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1999 -.2333 -.3271 -.3046 -.2016

ALPHA(3) = -.170 BETA(2) = -3.990

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1900 -.2175 -.2761 -.1964 -.1744

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1770 -.2052 -.2406 -.1646 -.1903

ALPHA(3) = -.200 BETA(4) = 4.120

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1930 -.2212 -.2530 -.1052 -.1460

(R05C13)

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

FUS+RUOPL BASE

ARC97-716 1A14 Q1+T12+SI2NE5

ALPHA(3) = -.210 BETA(3) = 0.090
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2223 -.2373 -.2604 -.0687 -.1106

ALPHA(4) = 3.936 BETA(1) = -0.070
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1945 -.2357 -.3197 -.3396 -.2244

ALPHA(4) = 3.910 BETA(2) = -4.080
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1800 -.2185 -.2653 -.2052 -.2205

ALPHA(4) = 3.910 BETA(3) = -.190
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1762 -.2002 -.2210 -.1972 -.2208

ALPHA(4) = 3.920 BETA(4) = 4.060
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1698 -.2233 -.2362 -.1459 -.1773

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 101

(083C13)

FUS+RLOFL BASE

ARC97-716 1A14 02+T12+S12N25

ALPHA(4) = 3.930 BETA(5) = 0.090
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2177 -.2611 -.2671 -.1103 -.1339

ALPHA(5) = 0.040 BETA(1) = -.6.170

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2068 -.2532 -.2636 -.3326 -.2347

ALPHA(5) = 0.020 BETA(2) = -4.120

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1957 -.2294 -.2436 -.2301 -.2366

ALPHA(5) = 0.020 BETA(3) = -.230

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1714 -.1923 -.1870 -.2196 -.2559

ALPHA(5) = 0.030 BETA(4) = 4.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1992 -.2301 -.2613 -.1723 -.1942

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 102

ARC97-716 1A14 01+712+312125

PUS+RUOP/L BASE

(RBSCL3)

ALPHA(9) = 0.000 BETA(9) = 0.100

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2390 -.2602 -.2798 -.1324 -.1517



REFERENCE DATA

SREF = 2.4210 36.FT. XMRP = 29.5600 INCHES

LREF = 36.7050 INCHES YMRP = .0000 INCHES

BREF = 36.7050 INCHES ZMRP = .0000 INCHES

SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000

RUDDER = .000 SPOBRK = .000

ALPHA(1) = -7.970 BETAO (1) = -7.930

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.1209 -.1901 -.2056 -.0625 .0318

ALPHA(1) = -7.980 BETAO (2) = -3.870

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.1265 -.1621 -.2187 .0239 .0172

ALPHA(1) = -7.980 BETAO (3) = .120

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.1312 -.1543 -.2084 .0613 .0163

ALPHA(1) = -7.990 BETAO (4) = 4.040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.1463 -.1704 -.2070 .1270 .0790

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

083C141

FUS+RUDFL BASE

ARC97-716 1A14 OR+T18+SIGN8

ALPHA(1) = -0.030 BETA(1) = 0.100
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1487 -.1023 -.1733 .1090 .1609

ALPHA(2) = -4.030 BETA(2) = -7.790
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1184 -.1329 -.2177 -.1049 -.0010

ALPHA(3) = -4.030 BETA(3) = -3.840
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1376 -.1720 -.2248 -.0079 -.0211

ALPHA(4) = -4.040 BETA(4) = .040
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1529 -.1776 -.2219 .0212 -.0156

ALPHA(5) = -4.040 BETA(5) = 3.960
SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1504 -.1711 -.2011 .0716 .0264



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083C141

FUS+RUOPL BASE

ARC97-716 1A14 CR+T12+S12N25

ALPHA(2) = -4.080 BETA(3) = 7.980
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1432 -.1853 -.1812 .1455 .1119

ALPHA(3) = -.180 BETA(1) = -7.810
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1302 -.1546 -.2191 -.1307 -.0322

ALPHA(3) = -.180 BETA(2) = -3.860
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1302 -.1762 -.2299 -.0506 -.0552

ALPHA(3) = -.180 BETA(3) = .040
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1315 -.1743 -.2156 -.0121 -.0477

ALPHA(3) = -.200 BETA(4) = 4.050
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1487 -.1724 -.1918 .0403 -.0057

(083C14)

FUS-RUOPL BASE

ARC97-716 1A14 Q1+712+812M21

ALPHA(3) = -.180 BETA(5) = 0.040
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1498 -.1717 -.1800 .1107 .0642
 ALPHA(4) = 3.930 BETA(1) = -7.910
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1210 -.1477 -.2002 -.1547 -.0620
 ALPHA(4) = 3.930 BETA(2) = -3.980
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1380 -.1682 -.2191 -.0734 -.0798
 ALPHA(4) = 3.940 BETA(3) = .030
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1360 -.1987 -.1998 -.0346 -.0731
 ALPHA(4) = 3.940 BETA(4) = 3.980
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1443 -.1733 -.1711 .0130 -.0398



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 107

ARC97-716 1A14 01+712+SIGN25

FUS+RUOFL BASE

(883C14)

ALPHA(4) = 3.930 BETA(5) = 0.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1418 -.1741 -.1846 .0722 .0236

ALPHA(5) = 0.080 BETA(1) = -0.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1200 -.1590 -.1976 -.1604 -.0746

ALPHA(5) = 0.060 BETA(2) = -4.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1356 -.1676 -.1999 -.0967 -.1028

ALPHA(5) = 0.060 BETA(3) = .000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1461 -.1736 -.2161 -.0667 -.1033

ALPHA(5) = 0.060 BETA(4) = 4.010

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1396 -.1715 -.1628 .0017 -.0578

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 108

ARC97-716 1A14 Q1+712+312N25

FUS+RUOPL BASE

(M83C14)

ALPHA(5) = 0.110 BETA(5) = 0.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1296 -.1747 -.1655 .0960 .0130



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RBS11) (18 JAN 74)

ARCS7-716 1A14 Q1+712+S12NB3+AT11 OMS NOZZLE

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

SREP = 2.4210 36. FT. ZMRP = 29.5600 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.950 BETA(1) = -7.970

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNW .2000 .4000

PHI

135.000 -.0697
180.000 .3030 .7625
225.000 .7253

ALPHA(1) = -7.950 BETA(2) = -4.300

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNW .2000 .4000

PHI

135.000 .3032
180.000 .5093 .8142
225.000 .6659

ALPHA(1) = -7.960 BETA(3) = -.130

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNW .2000 .4000

PHI

135.000 -.0406
180.000 .4907 .4878
225.000 .3753

ALPHA(1) = -7.970 BETA(4) = 3.810

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNW .2000 .4000

PHI

135.000 -.1441
180.000 .3552 .0353
225.000 -.0770

ARC97-716 1A14 Q1-T12-S12N5+AT11 CWS NOZZLE (N035E11)

ALPHA(1) = -7.990 BETA(5) = 7.780

SECTION (1) CWS NOZZLE DEPENDENT VARIABLE CP

X/LIN .5000 .4000

PMI

135.000 -.1716

160.000 .2035 -.0898

225.000 -.1955

ALPHA(2) = -4.020 BETA(1) = -7.920

SECTION (1) CWS NOZZLE DEPENDENT VARIABLE CP

X/LIN .5000 .4000

PMI

135.000 -.0480

160.000 .4802 .8107

225.000 .5647

ALPHA(2) = -4.020 BETA(2) = -4.110

SECTION (1) CWS NOZZLE DEPENDENT VARIABLE CP

X/LIN .5000 .4000

PMI

135.000 -.0375

160.000 .4811 .5726

225.000 .5487

ALPHA(2) = -4.030 BETA(3) = -.140

SECTION (1) CWS NOZZLE DEPENDENT VARIABLE CP

X/LIN .5000 .4000

PMI

135.000 -.1216

160.000 .4295 .8428

225.000 .8120



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 111

ARC97-716 1A14 O1+T12+S12M25+AT11 OMS NOZZLE

(M83EL1)

ALPHA0(2) = -4.030 BETAO(4) = 3.760

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.1809

180.000 .2718 -.0555

225.000 -.0197

ALPHA0(2) = -4.040 BETAO(5) = 7.760

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.1863

180.000 .1144 -.1471

225.000 -.2266

ALPHA0(3) = -.200 BETAO(1) = -7.920

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0433

180.000 .4808 .8566

225.000 .4835

ALPHA0(3) = -.200 BETAO(2) = -4.110

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0822

180.000 .4477 .3864

225.000 .3971

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(883E11)

ARCS7-716 1A14 Q1+T12+SL12B3+AT11 OMS NOZZLE

ALPHA(3) = -.210 BETA(3) = -.170

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 -.1228

180.000 .3063

225.000 .0768

ALPHA(3) = -.210 BETA(4) = 3.810

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 -.1394

180.000 .3104

225.000 -.0185

ALPHA(3) = -.210 BETA(5) = 7.740

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 -.2028

180.000 .0715

225.000 -.1655

ALPHA(4) = 3.940 BETA(1) = -7.680

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 -.0782

180.000 .4579

225.000 .1955



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03E11)

ARC97-716 1A14 01+712+S12N25+AT11 OMS NOZZLE

ALPHA(4) = 3.920 BETA(2) = -4.130

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0950
160.000 .4219 .2957
225.000 .2766

ALPHA(4) = 3.920 BETA(3) = -.160

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.1311
160.000 .2392 .0027
225.000 -.0398

ALPHA(4) = 3.930 BETA(4) = 3.770

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.1561
160.000 .2025 -.0495
225.000 -.0661

ALPHA(4) = 3.940 BETA(5) = 7.740

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.2151
160.000 -.0019 -.1697
225.000 -.2124

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TABULATED PRESSURE DATA - 1A14B - VOL. 2

DATE 27 JAN 79

(M83E11)

ARC97-716 1A14 Q1-T12-S12M5-A713 OMS NOZZLE

ALPHA(1 5) = 0.040 BETA(1 1) = -7.930

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LMM .8000 .4000

PHI

135.000 -0.003

180.000 .0839

225.000 .0702

ALPHA(1 5) = 0.020 BETA(1 2) = -4.190

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PHI

135.000 -0.1577

180.000 .0763

225.000 .0281

ALPHA(1 5) = 0.030 BETA(1 3) = -.190

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PHI

135.000 -0.1307

180.000 .1395

225.000 -0.0820

ALPHA(1 5) = 0.030 BETA(1 4) = 3.840

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LMM .8000 .4000

PHI

135.000 -0.1767

180.000 .1949

225.000 -0.0723



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 115

ARC97-716 1A14 Q1+T12+S12N23+AT11 OMS NOZZLE

(R83E11)

ALPHA(5) = 0.000 BETA(5) = 7.000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LIN .2000 .4000

PA1

135.000 -.2113

160.000 .0235 -.1762

225.000 -.2050

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 116

(RSESS) (18 JAN 74)

ARC97-716 1A14 Q1+712+512N2+AT11 ONS NOZZLE

REFERENCE DATA

SHF = 2.4210 36.57. 30MP = 29.5000 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BRFP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

Pw1
 135.000 .1159
 180.000 .0614 .7142
 225.000 .2999

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

Pw1
 135.000 .0835
 180.000 .5104 .0104
 225.000 .5613

ALPHA(1) = -7.980 BETA(3) = -.050

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

Pw1
 135.000 .1104
 180.000 .4279 .0649
 225.000 .3626

ALPHA(1) = -9.000 BETA(4) = 3.900

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

Pw1
 135.000 .0694
 180.000 .3444 .3636
 225.000 .2026

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDRK = .000



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 117

ARC97-716 1A14 01-T12-S12N25-AT11 0MS NOZZLE

(083E12)

ALPHA(1) = -0.030 BETA(5) = 7.880

SECTION (1) 0MS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 -.0244

180.000 .2890

225.000 -.0156

ALPHA(2) = -4.030 BETA(1) = -7.960

SECTION (1) 0MS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 .1170

180.000 .3766

225.000 .2148

ALPHA(2) = -4.030 BETA(2) = -3.960

SECTION (1) 0MS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 .0379

180.000 .4596

225.000 .3726

ALPHA(2) = -4.040 BETA(3) = -.060

SECTION (1) 0MS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PHI

135.000 .0907

180.000 .3941

225.000 .5735

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 Q1+712+512M25+AT11 OMS NOZZLE

(R03E12)

ALPHA(2) = -4.030 BETA(4) = 3.030
SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PMI
135.000 .0125
180.000 .3337 .3666
225.000 .1663

ALPHA(2) = -4.070 BETA(5) = 7.030
SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PMI
135.000 -.0857
180.000 .2483 .0316
225.000 -.0965

ALPHA(3) = -.800 BETA(1) = -7.940
SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PMI
135.000 .1143
180.000 .0946 .3065
225.000 .1934

ALPHA(3) = -.800 BETA(2) = -4.030
SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PMI
135.000 .0062
180.000 .3659 .4664
225.000 .2210



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 119

ARCS7-736 1A14 Q1+712+512N23+AT11 OMS NOZZLE

(893512)

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (3) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 .0493

160.000 .3129 .5195

225.000 .3724

ALPHA(3) = -.210 BETA(4) = 3.660

SECTION (3) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 -.0642

160.000 .2922 .2169

225.000 .1112

ALPHA(3) = -.220 BETA(5) = 7.660

SECTION (3) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 -.1262

160.000 .1474 -.0460

225.000 -.1319

ALPHA(4) = 3.950 BETA(1) = -8.020

SECTION (3) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 .1608

160.000 -.0002 .0696

225.000 .0909

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 120

ARCS7-716 1A14 Q1+712+512MS+AT11 OMS NOZZLE

6835321

ALPHA01 (4) = 3.930 BETA0 (2) = -4.040

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000	-.0043
160.000	-.2563
225.000	-.3891
	-.1695

ALPHA01 (4) = 3.930 BETA0 (3) = -.070

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000	-.0034
160.000	-.2239
225.000	-.1720
	-.2567

ALPHA01 (4) = 3.940 BETA0 (4) = 3.660

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000	-.0876
160.000	-.2665
225.000	-.1491
	-.1124

ALPHA01 (4) = 3.940 BETA0 (5) = 7.820

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000	-.1482
160.000	-.0279
225.000	-.1030
	-.1321



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 181

ARC57-716 1A14 Q2+T12+S12N25+AT11 OMS NOZZLE

0803E121

ALPHA(1 5) = 8.080 BETA(1 1) = -8.070

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 -.0211

180.000 -.1237

225.000 -.0795

ALPHA(1 5) = 8.080 BETA(1 2) = -4.080

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 -.0231

180.000 .0082

225.000 .0006

ALPHA(1 5) = 8.080 BETA(1 3) = -.070

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 .0310

180.000 .1259

225.000 .1119

ALPHA(1 5) = 8.080 BETA(1 4) = 3.940

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PMI

135.000 -.0413

180.000 .2529

225.000 .1217

2055123

DATE 27 JAN 79 TABULATED PRESSURE DATA 1-148 - VOL. 2
ARC97.3 = 1414 Q1-T12-S12N9-AT11 Q13 NOZZLE

ALPHA(1) = 8.318 BETA(1) = 7.943
SECTION (1) Q13 NOZZLE DEPENDENT VARIABLE CP

X/LIN .0000 .0000

PW1
135.000 -1.027
180.000 .0025 -1.091
225.000 -.0916

C-3



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

OMS NOZZLE

ARC97-716 1A14 Q1+712+512N25

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPDRK = .000

REFERENCE DATA

SREF = 2.4210 36. FT. YARP = 29.5600 INCHES
LREF = 36.7090 INCHES YARP = .0000 INCHES
BREF = 36.7090 INCHES ZARP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA0(1) = -7.930 BETA0(1) = -8.030

SECTION (1) OMS NOZZLE

X/LNM .2000 .4000

PHI
135.000 -.0497
160.000 .3035 .7315
225.000 .7275

ALPHA0(1) = -7.930 BETA0(2) = -3.710

SECTION (1) OMS NOZZLE

X/LNM .2000 .4000

PHI
135.000 .0026
160.000 .4906 .8062
225.000 .6630

ALPHA0(1) = -7.940 BETA0(3) = .150

SECTION (1) OMS NOZZLE

X/LNM .2000 .4000

PHI
135.000 -.0394
160.000 .4912 .4776
225.000 .3589

ALPHA0(1) = -7.960 BETA0(4) = 4.220

SECTION (1) OMS NOZZLE

X/LNM .2000 .4000

PHI
135.000 -.1870
160.000 .4497 .8242
225.000 .5086

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ARC97-73-6 1A14 Q1+T1S+SIENG5 OMS NOZZLE

(083E13)

ALPHA(1) = -7.800 BETA(1) = 0.150

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .8000 .4000

PHI

135.000	-.1939
160.000	-.8787
225.000	-.0963

ALPHA(2) = -4.020 BETA(2) = -7.970

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .8000 .4000

PHI

135.000	-.0930
160.000	.4536
225.000	.6429

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .8000 .4000

PHI

135.000	-.0393
160.000	.4716
225.000	.9414

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNH .8000 .4000

PHI

135.000	-.1297
160.000	.4179
225.000	.1759



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83E13)

OMS NOZZLE

ARC97-716 1A14 Q1+7112+312MS

ALPHA(2) = -4.030 BETA(4) = 4.120

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.1534

160.000 .3614

225.000 .1120

ALPHA(2) = -4.000 BETA(5) = 7.960

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.2204

160.000 .1611

225.000 -.2126

ALPHA(3) = -.190 BETA(1) = -6.000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0606

160.000 .4610

225.000 .4462

ALPHA(3) = -.170 BETA(2) = -3.990

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0662

160.000 .4463

225.000 .4187

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083E13)

ONS NOZZLE

ARC97-716 1A14 CR-712+312NE3

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PH1

135.000 -.1199

180.000 .3075 .1311

225.000 .0979

ALPHA(3) = -.200 BETA(4) = 4.180

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PH2

135.000 -.1733

180.000 .3332 .0543

225.000 .0335

ALPHA(3) = -.210 BETA(5) = 8.090

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PH3

135.000 -.2334

180.000 .0977 -.1741

225.000 -.2173

ALPHA(4) = 3.930 BETA(1) = -8.070

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PH4

135.000 -.0593

180.000 .4555 .7859

225.000 .1938



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83E13)

ONS NOZZLE

ARC97-716 1A14 C3+T12+512N25

ALPHA(4) = 3.910 BETA(2) = -4.080

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PNI

135.000 -.0950

180.000 -.4192

225.000 -.3024

ALPHA(4) = 3.910 BETA(3) = -.190

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PNI

135.000 -.1393

180.000 -.2440

225.000 .0098

ALPHA(4) = 3.920 BETA(4) = 4.080

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PNI

135.000 -.2056

180.000 .2993

225.000 .0041

ALPHA(4) = 3.930 BETA(5) = 6.090

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .2000 .4000

PNI

135.000 -.2486

180.000 .0114

225.000 -.2150

(R05E13)

TABULATED MEASURE DATA - 1A148 - VOL. 2

OMS NOZZLE

ARC 92-716 1A14 O1+T12-S12M23

DATE 27 JAN 75

ALPHA(3) = 0.040 BETA(1) = -0.170

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LM4 .5000 .4000

PM1

135.000 -.0424

180.000 .1208

225.000 .0784

ALPHA(5) = 0.020 BETA(2) = -4.120

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LM4 .5000 .4000

PM1

135.000 -.1443

180.000 .1024

225.000 .0324

ALPHA(5) = 0.020 BETA(3) = -.230

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LM4 .5000 .4000

PM1

135.000 -.1472

180.000 .1341

225.000 -.0563

ALPHA(5) = 0.030 BETA(4) = 4.070

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

X/LM4 .5000 .4000

PM1

135.000 -.2191

180.000 .2803

225.000 .0098



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 189

(R03E13)

OMS NOZZLE

ARC97-716 1A14 01-712-512N25

ALPHA(5) = 6.060 BETA(5) = 9.180

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

X/LNH .8000 .4000

Phi

155.000 -.2572

180.000 -.0699

225.000 -.5183

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83E14) (10 JAN 74)

ONS NOZZLE

ARC87-716 1A14 01-118-11825

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

SRP = 2.4210 26. FT. XMRP = 29.9400 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BRP = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.970 BETA(1) = -7.830

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI
135.000 .1174
180.000 .6777 .7188
225.000 .2600

ALPHA(1) = -7.980 BETA(2) = -3.870

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI
135.000 .0995
180.000 .2062 .8026
225.000 .5994

ALPHA(1) = -7.980 BETA(3) = .120

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI
135.000 .0868
180.000 .4076 .3685
225.000 .3642

ALPHA(1) = -7.980 BETA(4) = 4.040

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI
135.000 .0657
180.000 .3094 .5618
225.000 .1661



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 131

ARC97-716 1A14 Q1+712+512N25

ONS NOZZLE

0805141

ALPHA(1) = -0.030 BETA(1) = 0.100

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH -0.000 .4000

PHI

135.000 -.0191

180.000 .2710 .2611

225.000 .0023

ALPHA(2) = -4.030 BETA(1) = -7.760

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH -0.000 .4000

PHI

135.000 .1166

180.000 .3942 .3055

225.000 .2199

ALPHA(2) = -4.030 BETA(2) = -3.840

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH -0.000 .4000

PHI

135.000 .0244

180.000 .4366 .5176

225.000 .3760

ALPHA(2) = -4.040 BETA(3) = .040

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH -0.000 .4000

PHI

135.000 .0191

180.000 .3444 .4369

225.000 .3369

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0835E14)

ONS NOZZLE

ARC97-716 1A14 OL-712-S12M5

ALPHA(2) = -4.043 BETA(4) = 3.860

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .5000 .4000

PHI
135.000 .0314
180.000 .2970
225.000 .4436
225.000 .1724

ALPHA(2) = -4.080 BETA(5) = 7.980

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .5000 .4000

PHI
135.000 -.0828
180.000 .2488
225.000 .1373
225.000 -.0828

ALPHA(3) = -.180 BETA(1) = -7.810

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .5000 .4000

PHI
135.000 .10°
180.000 .0284
225.000 .2818
225.000 .1853

ALPHA(3) = -.180 BETA(2) = -3.860

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNH .5000 .4000

PHI
135.000 -.0080
180.000 .3730
225.000 .4356
225.000 .2418



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 133

0835E14)

ONS NOZZLE

ARC97-716 1A14 01-712-S12N65

ALPHA(3) = -.180 BETA(3) = .040

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PM1

135.000 .0117

180.000 .2948

225.000 .2845

ALPHA(3) = -.200 BETA(4) = 4.050

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PM1

135.000 -.0455

180.000 .2682

225.000 .1485

ALPHA(3) = -.180 BETA(5) = 8.040

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PM1

135.000 -.1183

180.000 .1723

225.000 -.1156

ALPHA(4) = 3.950 BETA(1) = -7.910

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LMM .2000 .4000

PM1

135.000 .1824

180.000 -.0048

225.000 .0884

083514)

ONS NOZZLE

ARC97-716 1A14 Q1+712+812M25

ALPHA0(4) = 3.930 BETA0(2) = -3.960

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI

135.000 -.0286

160.000 .2536

225.000 .3106

ALPHA0(4) = 3.940 BETA0(3) = .030

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI

135.000 .0146

160.000 .1916

225.000 .3534

ALPHA0(4) = 3.940 BETA0(4) = 3.960

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI

135.000 -.0316

160.000 .2563

225.000 .1629

ALPHA0(4) = 3.930 BETA0(5) = 8.020

SECTION (1)ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .8000 .4000

PHI

135.000 -.1472

160.000 .0534

225.000 -.0762



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(885E14)

ONS NOZZLE

ARC97-716 1A14 O1-T12-S12N25

ALPHA(5) = 3.090 BETA(1) = -9.080

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 .0042

160.000 -.1146

225.000 .1032

ALPHA(5) = 9.080 BETA(2) = -4.000

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0040

160.000 .0294

225.000 .0359

ALPHA(5) = 9.080 BETA(3) = .000

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 .0205

160.000 .0995

225.000 .1452

ALPHA(5) = 9.090 BETA(4) = 4.010

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LNM .2000 .4000

PHI

135.000 -.0592

160.000 .2501

225.000 .1868

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03E14)

ONS NOZZLE

ARC97-716 1A14 Q1+T12+SI2ME5

ALPHA(1 5) = 0.110 BETA(1 5) = 0.080

SECTION (1) ONS NOZZLE DEPENDENT VARIABLE CP

X/LWH .0000 .4000

Pw1

135.0000 -.1000

190.0000 .0098 -.1002

225.0000 -.0848



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83F11) (10 JAN 74)

ARC97-716 1A14 Q1-T12-S12N23-AT11 BODY FLAP

REFERENCE DATA

MRP = 2.4710 SQ.FT. MRP = 29.5600 INCHES
LREF = 36.7100 INCHES VMRP = .0000 INCHES
BRP = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0000 SCALE

ALPHA(1) = -7.950 BETA(1) = -7.970

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1757 .0000 -.1763 -.1825 -.2350 -.2331

ALPHA(1) = -7.950 BETA(2) = -4.300

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1656 .0000 -.1659 -.1672 -.2365 -.2267

ALPHA(1) = -7.960 BETA(3) = -.130

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1745 .0000 -.1804 -.1752 -.2518 -.2551

ALPHA(1) = -7.970 BETA(4) = 3.010

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1636 .0000 -.1618 -.1573 -.2276 -.2163

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
RUDDER = .000 SPDRK = .000

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083F11)

ARC97-716 1A14 Q1-T12-S12N5-A711 BODY FLAP

ALPHA(1) = -7.990 BETA(1) = 7.760

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1796 .0000 -.1725 -.1696 -.2394 -.2210

ALPHA(2) = -4.020 BETA(2) = -7.920

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1593 .0000 -.1809 -.1690 -.2520 -.2378

ALPHA(2) = -4.020 BETA(2) = -4.110

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1399 .0000 -.1457 -.1463 -.2323 -.2292

ALPHA(2) = -4.030 BETA(3) = -.140

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1487 .0000 -.1593 -.1516 -.2491 -.2471

ALPHA(2) = -4.030 BETA(4) = 3.760

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1596 .0000 -.1596 -.1444 -.2208 -.2137



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83F11)

ARC97-716 1A14 Q1-T12-S12NE3-AT11 BODY FLAP

ALPHA(2) = -4.848 BETA(3) = 7.760
SECTION (1) BODY FLAP DEPENDENT VARIABLE CP
TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1677 .0000 -.1601 -.1567 -.2456 -.2379

ALPHA(3) = -.800 BETA(1) = -7.821
SECTION (1) BODY FLAP DEPENDENT VARIABLE CP
TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1351 .0000 -.1557 -.1960 -.2608 -.2478

ALPHA(3) = -.800 BETA(2) = -4.100
SECTION (1) BODY FLAP DEPENDENT VARIABLE CP
TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1345 .0000 -.1375 -.1351 -.2277 -.2201

ALPHA(3) = -.810 BETA(1) = -.170
SECTION (1) BODY FLAP DEPENDENT VARIABLE CP
TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1334 .0000 -.1344 -.1235 -.2186 -.2106

ALPHA(3) = -.810 BETA(4) = 3.010
SECTION (1) BODY FLAP DEPENDENT VARIABLE CP
TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1364 .0000 -.1374 -.1246 -.2145 -.2075

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

R03F11)

ARCS7-716 1A14 Q1+712+812MS+AT11 BODY FLAP

ALPHA(1 3) = -.210 BETA(1 5) = 7.740
 SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1306 .0000 -.1440 -.1423 -.2501 -.2441

ALPHA(1 4) = 3.940 BETA(1 1) = -7.680
 SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1416 .0000 -.1317 -.1225 -.2642 -.2401

ALPHA(1 4) = 3.920 BETA(1 2) = -4.130
 SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1172 .0000 -.1192 -.1291 -.2314 -.2168

ALPHA(1 4) = 3.920 BETA(1 3) = -.160
 SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1266 .0000 -.1276 -.1099 -.2055 -.1916

ALPHA(1 4) = 3.930 BETA(1 4) = 3.770
 SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1295 .0000 -.1291 -.1165 -.2066 -.1935



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 143

ARC97-716 1A14 Q1+712+512N25+AT11 BODY FLAP

(R83F11)

ALPHAO(4) = 3.940 BETAO (3) = 7.740

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1334 .0000 -.1476 -.1448 -.2320 -.2437

ALPHAO(5) = 9.040 BETAO (1) = -7.930

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1265 .0000 -.1295 -.1305 -.2663 -.2529

ALPHAO(5) = 9.020 BETAO (2) = -4.190

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1015 .0000 -.1105 -.1022 -.2428 -.2375

ALPHAO(5) = 9.030 BETAO (3) = -.190

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1135 .0000 -.1195 -.1078 -.1954 -.1851

ALPHAO(5) = 9.030 BETAO (4) = 3.840

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1812 .0000 -.1822 -.1808 -.2113 -.2000

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03F11)

ARC97-716 1A14 Q1+T12+SI2NE5+AT11 BODY FLAP

ALPHA(3) = 0.000 BETA(3) = 7.000

SECTION (3) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.0000 -.1497 .0000 -.1443 -.1473 -.2445 -.2356



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 143

ARC97-716 1A14 OF +152+312N3+AT11 BODY FLAP

(NS3F12) (10 JAN 74)

REFERENCE DATA

REF = 2.4210 50.FT. XONP = 29.5000 INCHES
 LREF = 36.7090 INCHES YREF = .0000 INCHES
 BREF = 36.7090 INCHES ZREF = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.842 .0000 -1.482 -1.647 -1.598 -1.440

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.2075 .0000 -1.818 -1.2217 -1.376 -1.1495

ALPHA(1) = -7.980 BETA(3) = -.050

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.809 .0000 -1.627 -1.654 -1.485 -1.445

ALPHA(1) = -8.000 BETA(4) = 3.900

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.1933 .0000 -1.699 -1.662 -1.581 -1.569

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDRK = .000

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 Q1+T12+SIDE+AT11 BODY FLAP

083512)

ALPHA(1) = -0.030 BETA(5) = 7.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1571 .0000 -.1419 -.1211 -.1012 -.1651

ALPHA(2) = -4.030 BETA(1) = -7.900

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1705 .0000 -.1997 -.2096 -.1907 -.1480

ALPHA(2) = -4.030 BETA(2) = -3.900

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.000 -.2031 .0000 -.1543 -.2290 -.1607 -.1036

ALPHA(2) = -4.040 BETA(3) = -.060

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1771 .0000 -.1475 -.1776 -.1500 -.1575

ALPHA(2) = -4.030 BETA(4) = 3.830

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1770 .0000 -.1976 -.1413 -.1703 -.1696



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 145

ARC97-716 1A14 01+712+512N5+AT11 BODY FLAP

(R83F12)

ALPHA(2) = -4.070 BETA(3) = 7.830

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 1 99.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1331 .0000 -.1243 -.1174 -.1096 -.1777

ALPHA(3) = -.200 BETA(1) = -7.940

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 1 99.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1087 .0000 -.1010 -.1256 -.1707 -.1029

ALPHA(3) = -.200 BETA(2) = -4.030

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 1 99.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1746 .0000 -.1403 -.2379 -.1800 -.1763

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 1 99.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1482 .0000 -.1271 -.1023 -.1643 -.1031

ALPHA(3) = -.210 BETA(4) = 3.880

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 1 99.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1419 .0000 -.1148 -.1140 -.1095 -.1717

ARC92-716 1A14 OR-T12-S12N25-AT11 BODY FLAP

(083F12)

ALPHA(3) = -.220 BETA(5) = 7.800

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1072 .0000 -.0612 -.0527 -.1732 -.1830

ALPHA(4) = 3.930 BETA(1) = -8.020

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1915 .0000 -.1710 -.2310 -.1995 -.1626

ALPHA(4) = 3.930 BETA(2) = -4.040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1212 .0000 -.1039 -.2262 -.1702 -.1653

ALPHA(4) = 3.930 BETA(3) = -.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1129 .0000 -.1037 -.1694 -.1504 -.1526

ALPHA(4) = 3.940 BETA(4) = 3.860

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1139 .0000 -.1024 -.1107 -.1659 -.1661



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R3F12)

ARC97-716 1A14 Q1+T12+312MS+AT11 BODY FLAP

ALPHA(4) = 3.940 BETA(3) = 7.820

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0351 .0000 -.0906 -.0882 -.1699 -.1790

ALPHA(5) = 8.090 BETA(1) = -8.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1719 .0000 -.1110 -.2188 -.1746 -.1726

ALPHA(5) = 8.640 BETA(2) = -4.080

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1045 .0000 -.0795 -.2230 -.1709 -.1702

ALPHA(5) = 8.080 BETA(3) = -.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0962 .0000 -.0916 -.1615 -.1585 -.1602

ALPHA(5) = 8.092 BETA(4) = 3.940

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1008 .0000 -.1042 -.1037 -.1664 -.1653

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0003F121

ARC97-716 1A14 Q8+T12+512MB+AT11 BODY FLAP

ALPHA(3) = 8.118 BETA(3) = 7.940

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.04017 .0000 -.0679 -.0885 -.1027 -.1035



(R83F13) (18 JAN 74)

BODY FLAP

ARC97-716 1A14 CL+712+512NE3

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
RUDDER = .000 SPDRNK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.9600 INCHES
LREF = 36.7090 INCH J YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -8.030

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1635 -.3292 -.1481 -.2847 -.2298 -.2415

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1370 -.2692 -.1287 -.2185 -.2213 -.2240

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1662 -.1718 -.1678 -.1260 -.2337 -.2327

ALPHA(1) = -7.960 BETA(4) = 4.220

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 169.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1394 -.0987 -.1434 -.1564 -.2358 -.2441

ARC92-716 1A14 Q1+712+512+23

BODY FLAP

083F13)

ALPHAO(1) = -7.900 BETAO (5) = 6.150

SECTION (1) BODY FLAP : DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.1106 -1.1180 -1.1403 -1.1693 -1.2302 -1.2569

ALPHAO(2) = -4.080 BETAO (1) = -7.870

SECTION (1) BODY FLAP : DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.1661 -1.3473 -1.1135 -1.3167 -1.2445 -1.2547

ALPHAO(2) = -4.080 BETAO (2) = -3.670

SECTION (1) BODY FLAP : DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.0930 -1.2642 -1.0930 -1.2318 -1.2266 -1.2275

ALPHAO(2) = -4.030 BETAO (3) = .300

SECTION (1) BODY FLAP : DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.1541 -1.1997 -1.1518 -1.1217 -1.2216 -1.2269

ALPHAO(2) = -4.030 BETAO (4) = 4.120

SECTION (1) BODY FLAP : DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -1.0970 -1.0604 -1.1096 -1.1779 -1.2387 -1.2472



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 151

(R83F13)

BODY FLAP

ARC97-716 1A14 Q1-712-S12N25

ALPHA(2) = -4.020 BETA(5) = 7.990

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1059 -.0827 -.1214 -.1514 -.2564 -.2716

ALPHA(3) = -.180 BETA(1) = -8.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO. 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1413 -.3352 -.0856 -.3102 -.2366 -.2422

ALPHA(3) = -.170 BETA(2) = -3.990

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0509 -.3372 -.0708 -.2847 -.2232 -.2245

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1186 -.2437 -.1180 -.1792 -.2048 -.2075

ALPHA(3) = -.200 BETA(4) = 4.180

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0988 -.0785 -.0988 -.1081 -.2293 -.2326

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83F13)

ARC87-716 1A14 Q1+712+812N25 BODY FLAP

ALPHA(3) = -.212 BETA(3) = 0.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1507 -.0814 -.1114 -.1246 -.2559 -.2661

ALPHA(4) = 3.930 BETA(4) = -0.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1296 -.3227 -.0527 -.3049 -.2465 -.2425

ALPHA(4) = 3.910 BETA(2) = -4.080

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0574 -.3230 -.0486 -.2668 -.2171 -.2237

ALPHA(4) = 3.910 BETA(3) = -.190

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1006 -.3043 -.1048 -.2218 -.2067 -.2162

ALPHA(4) = 3.920 BETA(4) = 4.060

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0803 -.0838 -.0802 -.1007 -.2309 -.2348



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(NBSF13)

BODY FLAP

ARC97-716 1A14 Q1+T12+SIZE25

ALPHA(4) = 3.930 BETA(5) = 9.090

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1809 -.0766 -.0374 -.1105 -.2565 -.2644

ALPHA(5) = 8.040 BETA(1) = -8.170

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0934 -.3307 -.0243 -.2902 -.2669 -.2608

ALPHA(5) = 8.020 BETA(2) = -4.120

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0567 -.3151 -.0422 -.2736 -.2260 -.2342

ALPHA(5) = 8.020 BETA(3) = -.230

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1006 -.2427 -.1078 -.1344 -.2076 -.2093

ALPHA(5) = 8.030 BETA(4) = 4.070

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 199.0000170.0000171.0000172.0000173.0000174.0000

.000 -.0431 -.0781 -.0696 -.0525 -.2377 -.2407

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03P13)

BODY FLAP

ARC97-716 1A14 Q1-T18+SIGNMS

ALPHA01 S1 = 0.000 BETA0 (5) = 8.100

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 102 .0000376 .00000171 .00000172 .00000173 .00000174 .0000

.0000 -.0702 -.0634 .0039 -.1303 -.2724 -.2803



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 155

ANC97-716 1A14 01+712+312N5

BODY FLAP

RBSF14) (18 JAN 74)

REFERENCE DATA

REF = 2.4210 34.FT. XREF = 29.5000 INCHES
 LREF = 34.7090 INCHES YREF = .0000 INCHES
 BREF = 34.7090 INCHES ZREF = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.973 BETA(1) = -7.830

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1058 -.2005 -.1971 -.1645 -.1553 -.1638

ALPHA(1) = -7.980 BETA(2) = -3.870

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1490 -.1507 -.1601 -.1715 -.1560 -.1601

ALPHA(1) = -7.860 BETA(3) = .120

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1431 -.1351 -.1544 -.1365 -.1537 -.1607

ALPHA(1) = -7.990 BETA(4) = 4.040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1989 -.1972 -.1780 -.1780 -.1648 -.1751

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

085P141

BODY FLAP

ALPHAO(1) = -8.030 BETAO(3) = 0.100

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1980 -.1034 -.1829 -.1274 -.1027 -.1593

ALPHAO(2) = -4.030 BETAO(3) = -7.790

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.1880 -.1029 -.1602 -.1364 -.1612 -.1024

ALPHAO(2) = -4.030 BETAO(2) = -3.040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.2044 -.2090 -.1864 -.1600 -.1717 -.1766

ALPHAO(2) = -4.040 BETAO(3) = .040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.2030 -.2205 -.1679 -.2116 -.1760 -.1802

ALPHAO(2) = -4.040 BETAO(4) = 3.900

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 -.2005 -.2001 -.1688 -.1670 -.1761 -.1728



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 157

083F141

BODY FLAP

ARC97-716 1A14 Q1+T12+SI2NES

ALPHA(2) = -4.000 BETA(3) = 7.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1000 --.0900 --.1732 --.0856 --.1068 --.1710

ALPHA(3) = -.100 BETA(1) = -7.810

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1049 --.1012 --.1003 --.2274 --.1732 --.1706

ALPHA(3) = -.100 BETA(2) = -3.800

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1702 --.2043 --.1568 --.2339 --.1759 --.1749

ALPHA(3) = -.100 BETA(3) = .040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1490 --.2145 --.1344 --.2272 --.1755 --.1743

ALPHA(3) = -.200 BETA(4) = 4.020

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1710 --.1713 --.1093 --.1231 --.1720 --.1716

0083714)

BODY FLAP

ALPHAO(3) = -.180 BETAO (2) = 0.040

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1802 --.1124 --.1997 --.1071 --.1711 --.1774

ALPHAO(4) = 3.950 BETAO (1) = -7.910

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1923 --.1649 --.2024 --.2128 --.1609 --.1603

ALPHAO(4) = 3.950 BETAO (2) = -3.960

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1737 --.1976 --.1273 --.2292 --.1733 --.1706

ALPHAO(4) = 3.940 BETAO (3) = .030

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1119 --.2072 --.1206 --.2129 --.1609 --.1609

ALPHAO(4) = 3.940 BETAO (4) = 3.980

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 109.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1283 --.1764 --.1676 --.1331 --.1743 --.1733



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83F14)

BODY FLAP

ARC97-716 1A14 Q1-T12+812NE3

ALPHA(4) = 2.930 BETA(5) = 6.020

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1801 --.1226 --.1943 --.0980 --.1674 --.1746

ALPHA(5) = 6.090 BETA(1) = -6.050

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.070 --.1935 --.1930 --.1850 --.2101 --.1975 --.1612

ALPHA(5) = 6.080 BETA(2) = -4.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1701 --.1987 --.1073 --.2153 --.1662 --.1636

ALPHA(5) = 6.080 BETA(3) = .000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1226 --.2208 --.1234 --.4368 --.1786 --.1795

ALPHA(5) = 6.090 BETA(4) = 4.010

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 189.0000170.0000171.0000172.0000173.0000174.0000

.000 --.1806 --.1802 --.1345 --.1235 --.1649 --.1703

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DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 100

ARC97-716 1A14 CR-T12-S12M5

BODY FLAP

0003F141

ALPHA01 S) = 0.110 BETA0 (S) = 0.000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

TAP NO 100 .0000170 .0000171 .0000172 .0000173 .0000174 .0000

.000 --.1004 --.0007 --.0000 --.0041 --.1731 --.1773



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 161

ARC97-716 1A14 Q1+T12+S12M5+A711 OMS PCO

0883-011 (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 56.FT. XRP = 29.5600 INCHES
LRF = 36.7090 INCHES YRP = .0000 INCHES
BRF = 36.7090 INCHES ZRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.920 BETA(1) = -7.970

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.2299 -.2331 .0509 .1037

ALPHA(1) = -7.920 BETA(2) = -4.300

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1920 -.2066 -.0026 .0327

ALPHA(1) = -7.860 BETA(3) = -.130

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.2263 -.2337 -.0335 -.0367

ALPHA(1) = -7.970 BETA(4) = 3.810

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1696 -.2112 .0217 -.0266

PARAMETRIC DATA

MACH = 1.250 ELEVON = .000
RUDDER = .000 SPOBRK = .000

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003M11)

ARCS7-71.6 1A14 Q1+712+812MB+1A11 QMS PCO

ALPHA(1) = -7.990 BETA(5) = 7.760
SECTION (1) QMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.187 -.221 -.0282 -.0928

ALPHA(2) = -4.020 BETA(1) = -7.920
SECTION (1) QMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.2243 -.2231 -.0191 .0511

ALPHA(2) = -4.020 BETA(2) = -4.110
SECTION (1) QMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.2049 -.2071 -.0588 -.0184

ALPHA(2) = -4.030 BETA(3) = -.140
SECTION (1) QMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.2106 -.2173 -.0937 -.0843

ALPHA(2) = -4.030 BETA(4) = 3.760
SECTION (1) QMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1891 -.1861 -.0328 -.0592



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 183

ARC97-716 1A14 01+712+512N25+AT11 OMS POD

(RBSM11)

ALPHAO(2) = -4.040 BETAO (3) = 7.760

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2036 -.2175 -.1584 -.1650

ALPHAO(3) = -.200 BETAO (1) = -7.920

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2269 -.2299 -.1003 -.0300

ALPHAO(3) = -.200 BETAO (2) = -4.100

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2004 -.2091 -.1046 -.0669

ALPHAO(3) = -.210 BETAO (3) = -.170

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.1830 -.1947 -.1228 -.1135

ALPHAO(3) = -.210 BETAO (4) = 3.810

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.1622 -.1829 -.0979 -.0448

(REVERSE)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 Q1-T12-S12N25-AT11 QMS POD

ALPHA(3) = -.218 BETA(3) = 7.740
SECTION (1) QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000
.000 -.2159 -.2219 -.1892 -.1947

ALPHA(4) = 3.940 BETA(4) = -7.880
SECTION (1) QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000
.000 -.2193 -.2223 -.1648 -.0911

ALPHA(4) = 3.980 BETA(2) = -4.130
SECTION (1) QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000
.000 -.2023 -.2042 -.1884 -.1276

ALPHA(4) = 3.980 BETA(3) = -.160
SECTION (1) QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000
.000 -.1743 -.1726 -.1613 -.1600

ALPHA(4) = 3.830 BETA(4) = 3.770
SECTION (1) QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000
.000 -.1709 -.1698 -.1993 -.1236



(R83M1)

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC87-716 1A14 OR-TIER-SIENES-A111 OMS. POD.

ALPHA(4) = 3.940 BETA(5) = 7.740

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.00000

.000 -.2181 -.2230 -.1837 -.2081

ALPHA(5) = 8.040 BETA(1) = -7.930

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.00000

.000 -.2350 -.2373 -.2050 -.1464

ALPHA(5) = 8.020 BETA(2) = -4.190

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.00000

.000 -.2112 -.2128 -.2225 -.1697

ALPHA(5) = 8.030 BETA(3) = -.190

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.00000

.000 1.1888 -.1889 -.1945 -.1813

ALPHA(5) = 8.030 BETA(4) = 3.840

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.00000

.000 -.1737 -.1764 -.1752 -.1681

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 188

(MS3M11)

ARC57-716 1A14 Q1+T12+SI2NE2+AT11 QMS POD

ALPHA(5) = 8.080 BETA(5) = 7.800

SECTION 1 : QMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000186.0000187.0000188.00000

.000 -.2037 -.2183 -.1957 -.2253



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 167

ARC97-716 1A14 01-712-512H25-A711 OHS POD

(R83H2) (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 36. FT. XRP = 29.5600 INCHES
 LRP = 36.7050 INCHES YRP = .0070 INCHES
 BRP = 36.7050 INCHES ZRP = .0070 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.960 BETA(1) = -7.960

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1495 -.1467 .0246 .0736

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1456 -.1517 -.0046 .0456

ALPHA(1) = -7.960 BETA(3) = -.050

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1313 -.1361 -.0136 .0131

ALPHA(1) = -6.000 BETA(4) = 3.900

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1417 -.1556 -.0305 -.0305

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDRK = .000

DATE 27 JAN 73 TAPULATED PRESSURE DATA - 1A148 - VOL. 2

(003412)

ARC97-716 1A14 01-T12-S12M2-AT11 OMS PCO

ALPHA(1) = -0.030 BETA(5) = 7.980
SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1941 -.1996 -.0801 -.1341
ALPHA(2) = -4.030 BETA(1) = -7.980

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1370 -.1485 -.0106 .0119
ALPHA(2) = -4.030 BETA(2) = -3.980

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1930 -.1823 -.0427 -.0088
ALPHA(2) = -4.040 BETA(3) = -.081

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1909 -.1953 -.0619 -.0281
ALPHA(2) = -4.050 BETA(4) = 3.830

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1981 -.1980 -.0731 -.0692



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 Q1-T12-S12M25-AT11 OMS POD (R83M12)

ALPHA(2) = -4.070	BETA(5) = 7.830
SECTION (1) OMS POD DEPENDENT VARIABLE CP	
TAP NO 185.0000166.0000167.0000166.00000	
.000	-1.886 -1.701 -.1022 -.1327
ALPHA(3) = -.200	BETA(1) = -7.940
SECTION (1) OMS POD DEPENDENT VARIABLE CP	
TAP NO 185.0000166.0000167.0000166.00000	
.000	-1.223 -.1616 -.0402 -.0249
ALPHA(3) = -.200	BETA(2) = -4.030
SECTION (1) OMS POD DEPENDENT VARIABLE CP	
TAP NO 185.0000166.0000167.0000166.00000	
.000	-1.887 -.1756 -.0735 -.0532
ALPHA(3) = -.210	BETA(3) = -.120
SECTION (1) OMS POD DEPENDENT VARIABLE CP	
TAP NO 185.0000166.0000167.0000166.00000	
.000	-1.980 -.1631 -.0970 -.0635
ALPHA(3) = -.210	BETA(4) = 3.880
SECTION (1) OMS POD DEPENDENT VARIABLE CP	
TAP NO 185.0000166.0000167.0000166.00000	
.000	-1.822 -.1645 -.0945 -.0794

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DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RESUME)

ARC92-718 1A14 Q1-T12-S12M5-A711 QMS FOR

ALPHA(3) = -.228 BETA(3) = 7.80
SECTION (1) QMS FOR DEPENDENT VARIABLE CP

TAP NO 185.0000186.0000187.0000188.0000

.000 -.1871 -.1878 -.1194 -.1316

ALPHA(4) = 3.950 BETA(1) = -8.080

SECTION (1) QMS FOR DEPENDENT VARIABLE CP

TAP NO 185.0000186.0000187.0000188.0000

.000 -.1985 -.1838 -.0732 -.0647

ALPHA(4) = 3.930 BETA(2) = -4.040

SECTION (1) QMS FOR DEPENDENT VARIABLE CP

TAP NO 185.0000186.0000187.0000188.0000

.000 -.1838 -.1873 -.0988 -.0818

ALPHA(4) = 3.930 BETA(3) = -.070

SECTION (1) QMS FOR DEPENDENT VARIABLE CP

TAP NO 185.0000186.0000187.0000188.0000

.000 -.1441 -.1494 -.1140 -.0818

ALPHA(4) = 3.940 BETA(4) = 3.880

SECTION (1) QMS FOR DEPENDENT VARIABLE CP

TAP NO 185.0000186.0000187.0000188.0000

.000 -.1820 -.1844 -.1178 -.1010



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 171

ARC97-776 1A14 01+712+312N23+AT11 OMS POD

(R83M12)

ALPHA(4) = 3.940 BETA(5) = 7.820

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1839 --.1641 --.1324 --.1319

ALPHA(5) = 8.090 BETA(1) = -8.070

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1824 --.1709 --.0993 --.0971

ALPHA(5) = 8.090 BETA(2) = -4.080

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1922 --.1636 --.1184 --.1101

ALPHA(5) = 8.090 BETA(3) = -.070

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1914 --.1903 --.1348 --.1062

ALPHA(5) = 8.090 BETA(4) = 3.940

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1824 --.1653 --.1227 --.1098

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 172

ARC97-716 1A14 CR-712-SIENS-AT11 OMS POD

(MS3M2)

ALPHA(15) = 8.110 BETA(15) = 7.940

SECTION (110MS POD) DEPENDENT VARIABLE CP

TAP NO 163.0000166.0000167.0000168.0000

.0000 -.1725 -.1725 -.1395 -.1334



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 173

ARC97-716 1A14 01-712+512N25 OMS P00 (RBSM3) (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 36.75 FT. 2MRP = 29.5000 INCHES
 LRP = 36.7000 INCHES YMRP = .0000 INCHES
 GRP = 36.7000 INCHES 2MRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -8.030

SECTION (1) OMS P00 DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2311 -.2331 -.0708 .1188

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) OMS P00 DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2099 -.2136 .0024 .0336

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) OMS P00 DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2213 -.2277 -.0267 -.0334

ALPHA(1) = -7.960 BETA(4) = 4.820

SECTION (1) OMS P00 DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 -.2356 -.2364 -.0226 -.0393

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(R33M33)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

DATE 27 JAN 79

OMS POD

ARC87-716 1A14 Q1+112+312M3

ALPHA(1) = -7.988 BETA(5) = 8.150

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000

.000 -.2493 -.2549 -.0570 -.1323

ALPHA(2) = -4.020 BETA(1) = -7.970

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000

.000 -.2388 -.2399 -.0084 .0568

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000

.000 -.2100 -.2127 -.0801 -.0231

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000

.000 -.2143 -.2186 -.0840 -.0450

ALPHA(2) = -4.030 BETA(4) = 4.120

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 183.0000166.0000167.0000168.0000

.000 -.2303 -.2336 -.0643 -.0702



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

083403)

OMS POD

ARC97-716 1A14 01-712-512N23

ALPHA(2) = -4.020 BETA(3) = 7.990

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000168.0000

.000 - .2561 - .2574 - .1244 - .1653

ALPHA(3) = -.130 BETA(1) = -6.000

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000168.0000

.000 - .2234 - .2316 - .0913 - .0220

ALPHA(3) = -.170 BETA(2) = -3.940

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000168.0000

.000 - .2148 - .2162 - .1085 - .0672

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000168.0000

.000 - .2002 - .2076 - .1176 - .1042

ALPHA(3) = -.200 BETA(4) = 4.120

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000168.0000

.000 - .2112 - .2135 - .0945 - .0943

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 176

ARC97-716 1A14 CR+12+512M23

ONS POD

(033M23)

ALPHA(3) = -.218 BETA(3) = 8.090

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2493 -.2532 -.1781 -.1896

ALPHA(4) = 3.920 BETA(4) = -8.070

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2273 -.2333 -.1656 -.0914

ALPHA(4) = 3.910 BETA(2) = -4.080

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2042 -.2081 -.1861 -.1267

ALPHA(4) = 3.810 BETA(3) = -.180

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1928 -.1941 -.1632 -.1540

ALPHA(4) = 3.920 BETA(4) = 4.080

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2256 -.2332 -.1923 -.1248



(RBSM3)

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCS7-716 1A14 CL+718+312M3 OMS POD

ALPHA(4) = 5.930 BETA(5) = 8.090
SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2508 -.2818 -.2041 -.2216

ALPHA(5) = 8.040 BETA(1) = -8.170

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0007166.0000167.0000166.0000

.000 -.2514 -.2544 -.1971 -.1332

ALPHA(5) = 8.320 BETA(2) = -4.120

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2131 -.2181 -.2184 -.1656

ALPHA(5) = 8.020 BETA(3) = -.250

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0070166.0000167.0000166.0000

.000 -.1904 -.1914 -.2033 -.1619

ALPHA(5) = 8.050 BETA(4) = 4.070

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.2271 -.2291 -.1660 -.1703

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - IAI48 - VOL. 2

0839433)

ONS POD

ARC97-716 IAI4 CL+T12+312ME3

ALPHA(3) = 0.080 BETA(3) = 0.180

SECTION (1)ONS POD DEPENDENT VARIABLE CP

TAP NO 169.0000166.00000167.0000166.00000

.000 -.0675 -.2708 -.2100 -.2483



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 179

ARC97-716 1A14 Q1-T124312N21

(08344) (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 36.17. ZMRP = 29.5000 INCHES
 LRP = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7050 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.970 BETA(1) = -7.830

SECTION (1)ONS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1379 -.1882 .0269 .0710

ALPHA(1) = -7.980 BETA(2) = -3.870

SECTION (1)ONS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1531 -.1967 -.0067 .0445

ALPHA(1) = -7.980 BETA(3) = .120

SECTION (1)ONS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1455 -.1491 -.0197 .0114

ALPHA(1) = -7.990 BETA(4) = 4.040

SECTION (1)ONS PCO DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1676 -.1717 -.0332 -.0338

ORIGINAL PAGE 17
 OF POOR QUALITY

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 1802

ARC37-716 1A14 01-712-S12M25 OMS POD

(R03104)

ALPHA01 (1) = -6.030 BETA0 (5) = 9.100

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1549 -.1598 -.0801 -.1366

ALPHA01 (2) = -4.030 BETA0 (1) = -7.790

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1480 -.1532 -.0061 .0176

ALPHA01 (2) = -4.030 BETA0 (2) = -3.840

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1669 -.1725 -.0432 -.0073

ALPHA01 (2) = -4.040 BETA0 (3) = .040

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1720 -.1777 -.0559 -.0229

ALPHA01 (2) = -4.040 BETA0 (4) = 3.980

SECTION (1) OMS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000168.0000

.000 -.1619 -.1698 -.0654 -.0573



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83M4)

ARC97-716 1A14 OL+712+312M25

ONS POD

ALPHA(2) = -4.060 BETA(3) = 7.860

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1819 -.1640 -.0923 -.1293

ALPHA(3) = -.180 BETA(1) = -7.810

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1672 -.1709 -.0396 -.0254

ALPHA(3) = -.180 BETA(2) = -3.860

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1899 -.1742 -.0636 -.0433

ALPHA(3) = -.190 BETA(3) = .040

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1667 -.1741 -.0884 -.0530

ALPHA(3) = -.200 BETA(4) = 4.030

SECTION (1) ONS POD DEPENDENT VARIABLE CP

TAP NO 165.0000166.0000167.0000166.0000

.000 -.1630 -.1691 -.0997 -.0743

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(883M4)

OMS PCO

ARC97-718 1A14 Q1-T12-S12M25

ALPHA(3) = -.180 BETA(5) = 0.040
SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 185.0000166.00000167.00000166.0000

.000 -.1800 -.1706 -.1139 -.1307

ALPHA(4) = 3.930 BETA(1) = -7.910

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 185.0000166.00000167.00000166.0000

.000 -.1336 -.1827 -.0663 -.0999

ALPHA(4) = 3.930 BETA(2) = -7.960

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 185.0000166.00000167.00000166.0000

.000 -.1800 -.1733 -.0695 -.0755

ALPHA(4) = 3.940 BETA(3) = .030

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 185.0000166.00000167.00000166.0000

.000 -.1571 -.1808 -.1052 -.0742

ALPHA(4) = 3.940 BETA(4) = 3.960

SECTION (1) OMS PCO DEPENDENT VARIABLE CP

TAP NO 185.0000166.00000167.00000166.0000

.000 -.1709 -.1743 -.1144 -.0979



(003M4)

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCS 7-16 1A14 Q8+15E+SIENES OHS POD

ALPHA(4) = 3.930 BETA(3) = 8.020
SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1679 --.1700 --.1279 --.1235

ALPHA(3) = 8.090 BETA(1) = -8.020

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1333 --.1692 --.0934 --.0915

ALPHA(3) = 9.090 BETA(2) = -4.000

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1636 --.1682 --.1121 --.1035

ALPHA(3) = 8.060 BETA(3) = .000

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1695 --.1739 --.1413 --.1066

ALPHA(3) = 8.090 BETA(4) = 4.010

SECTION (1) OHS POD DEPENDENT VARIABLE CP

TAP NO 185.0000166.0000167.0000166.0000

.000 --.1679 --.1703 --.1210 --.1023

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083M4)

ONS POD

ARC2-716 1A14 Q1+712+512M5

ALPHA(5) = 8.110 BETA(5) = 8.080

SECTION (1)ONS POD DEPENDENT VARIABLE CP

TAP NO 185.0000186.00000167.0000166.00000

.0000 -.1791 -.1781 -.0949 -.0000



ARC97-716 1A14 Q1+712+512N2+AT11 LOWER WING

(R03L11) (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 24.71. ZWRP = 29.5600 INCHES
 LRP = 36.7090 INCHES YWRP = .0000 INCHES
 BRP = 36.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
 RUDDER = .000 SPDRK = .000

ALPHA(1) = -7.920 BETA(1) = -7.970

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/OW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CV							
.000	.1166	.1009	.3918	.7144	.6466	.5721	.8291
.020				-.2344	-.5491	-.3277	-.2013
.030			.0131				
.040		-.0311					
.048			.0225				
.070	.0632			-.2846	-.3305	-.3667	-.3677
.080				-.2422			
.085			-.0482				
.086		.0710					
.094	-.0124						
.130				-.2262	-.2798	-.3359	-.3931
.163		.1149					
.177			.0663				
.229	-.0342						
.246		.0222					
.270				-.0902	-.2723	-.2920	-.3119
.274			-.0670				
.302	.0676						
.390		.0183		.1249	-.0443		-.2046
.400			.1912				
.422							
.457	.0404						
.530			.2394	.1691	.0234		
.585							
.605							-.2667
.650					.0392		
.700	.3566						
.725				.1454			
.730					.0836	-.1481	
.780			.0140				
.775				.0120	.0725		
.808			-.1361				
.834	-.2299						
.870				-.1593	-.0845	-.0105	
.857			-.2558				
.865	-.2693						
.900	-.3176			-.2569			-.1709
.905			-.3397		-.2259		

[illegible]

SECTION 11102 WING

DEPENDENT VARIABLE CP

[illegible]

AD70					.0000
.920				- .3594	
.923				- .3641	
.983				- .3602	

$$\beta_{TAO}(1) = -7.950 \quad \beta_{TAO}(2) = -4.300$$

SECTION, 11100000 WINE	DEPENDENT VARIABLE OF
11100000 WINE	11100000 WINE

Year	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																										
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000	1,650,000	1,700,000	1,750,000	1,800,000	1,850,000	1,900,000	1,950,000	2,000,000	2,050,000	2,100,000	2,150,000	2,200,000	2,250,000	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000	2,550,000	2,600,000	2,650,000	2,700,000	2,750,000	2,800,000	2,850,000	2,900,000	2,950,000	3,000,000	3,050,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	3,400,000	3,450,000	3,500,000	3,550,000	3,600,000	3,650,000	3,700,000	3,750,000	3,800,000	3,850,000	3,900,000	3,950,000	4,000,000	4,050,000	4,100,000	4,150,000	4,200,000	4,250,000	4,300,000	4,350,000	4,400,000	4,450,000	4,500,000	4,550,000	4,600,000	4,650,000	4,700,000	4,750,000	4,800,000	4,850,000	4,900,000	4,950,000	5,000,000	5,050,000	5,100,000	5,150,000	5,200,000	5,250,000	5,300,000	5,350,000	5,400,000	5,450,000	5,500,000	5,550,000	5,600,000	5,650,000	5,700,000	5,750,000	5,800,000	5,850,000	5,900,000	5,950,000	6,000,000	6,050,000	6,100,000	6,150,000	6,200,000	6,250,000	6,300,000	6,350,000	6,400,000	6,450,000	6,500,000	6,550,000	6,600,000	6,650,000	6,700,000	6,750,000	6,800,000	6,850,000	6,900,000	6,950,000	7,000,000	7,050,000	7,100,000	7,150,000	7,200,000	7,250,000	7,300,000	7,350,000	7,400,000	7,450,000	7,500,000	7,550,000	7,600,000	7,650,000	7,700,000	7,750,000	7,800,000	7,850,000	7,900,000	7,950,000	8,000,000	8,050,000	8,100,000	8,150,000	8,200,000	8,250,000	8,300,000	8,350,000	8,400,000	8,450,000	8,500,000	8,550,000	8,600,000	8,650,000	8,700,000	8,750,000	8,800,000	8,850,000	8,900,000	8,950,000	9,000,000	9,050,000	9,100,000	9,150,000	9,200,000	9,250,000	9,300,000	9,350,000	9,400,000	9,450,000	9,500,000	9,550,000	9,600,000	9,650,000	9,700,000	9,750,000	9,800,000	9,850,000	9,900,000

[illegible]

0.00	-0.0020	
0.00		
0.00	-0.0263	
0.00		
0.00	-0.0711	
0.00		
0.00	-0.0106	
0.00		
0.00	-0.3467	-0.4102
0.00	-0.3142	-0.4154

.069

- .0997

.085

- .0748

[illegible]

.229 -.0149
 .246 -.0390
 .250
 .274
 -.1151
 -.1093 -.3945 -.3622 -.3767

.362 .0133
.390 -.0421
.400 .0164 -.1083
.472 .0723 -.3376

-.0379
-.0301
-.0204
-.0104
-.0099
-.0099

.690		
.700	.8193	.1179
.729		.0911
.790		-.0171 --.2912

.760
.779
.800
- .8510
- .1608
-.0293
.0291

100



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(RESULTS)

ARC97-716 1A14 01+712+SIENES+AT11 LOWER WING

ALPHA(1) = -7.920 BETA(2) = -4.300

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2900	.3640	.4270	.5340	.6750	.7600	.8870
X/CW							
.897			-.8739				
.903	-.2730						
.900	-.3321			-.2902			-.3012
.903			-.3545		-.2583		
.920				-.3661		.0000	
.925			-.4047				
.965	-.3996						

ALPHA(1) = -7.980 BETA(3) = -.130

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2900	.3640	.4270	.5340	.6750	.7600	.8870
X/CW							
.000	-.0063	-.0348	.1923	.4423	.3793	.3232	.3673
.020				-.3572	-.3876	-.4140	-.3635
.030			-.1514				
.040		-.0403					
.048			-.1664				
.050	-.0487			-.3720	-.4412	-.4803	-.4566
.060				-.3627			
.065			-.1451				
.068	-.0635						
.094	-.0409						
.120		-.0363		-.3465	-.4001	-.4195	-.4215
.163			-.1485				
.177							
.229	-.0544						
.246		-.1127					
.250				-.1986	-.3932	-.4185	-.4135
.274			-.1060				
.362	-.0361						
.390		-.0434					
.420				-.0016	-.1759		-.4008
.492			.0293				
.497	-.0399						
.530				.0101	-.0347		
.565			.0364				
.670							-.2628
.690						-.1915	
.700	.1032				.0302		
.725				.0069			
.750						-.0706	-.2049
.760			-.1241				

0805111

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 Q1+712-SIENES-AT11 LOWER MINE

ALPHA(1) = -7.800 BETA(3) = -.130

SECTION (1) LOWER MINE DEPENDENT VARIABLE CP

V/W	.5990	.5640	.4270	.5340	.6730	.7600	.8870
Z/CV							
.775				-.1063	-.0457		
.809			-.8486				
.834	-.2396						
.850				-.2498	-.1768	-.1390	
.857			-.3024				
.865	-.2772						-.2893
.900	-.3349			-.3355	-.3022		
.905			-.3467			.0000	
.930				-.4031			
.933			-.4042				
.985	-.3227						

ALPHA(1) = -7.870 BETA(4) = 3.810

SECTION (1) LOWER MINE DEPENDENT VARIABLE CP

V/W	.5990	.5640	.4270	.5340	.6730	.7600	.8870
Z/CV							
.000	-.0967	-.0428	.1179	.3456	.2725	.2955	.3168
.020				-.3770	-.4171	-.4287	-.4028
.030		-.0991					
.040		-.0856					
.046		-.1058					
.050	-.1041			-.3860	-.4182	-.4177	-.4816
.060				-.3644			
.085			-.0818				
.086		-.0450					
.094	-.0642						
.150		-.0055		-.1713	-.3987	-.4067	-.4255
.163							
.177		-.0856					
.229	-.1060						
.246		-.0317					
.250				-.1115	-.3078	-.2778	-.4224
.274			-.0806				
.382	-.0807						
.370		-.0909					
.400				-.0435	-.0432		-.3669
.402			.0003				
.497	-.0232						
.590				-.0559	-.0186		
.585			-.0222				
.600							-.2474
.690						-.0477	



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DATE 27 JUN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716-1A14 Q1+712+512N65+AT11. LOWER WING

ALPHA(1) = -7.970 BETA(4) = 3.010

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/6W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.700	-.0096				.0335		
.725				-.1089		.0494	-.0665
.750							
.760			-.2585				
.775				-.1632	-.0506		
.800			-.2896				
.834	-.2674						
.850				-.2766	-.1939	-.1364	
.857				-.3226			
.865	-.3231						-.1440
.900	-.3236		-.3479		-.3144		
.903			-.3446		-.3259	.0000	
.920							
.935			-.2132				
.965	-.2232						

ALPHA(1) = 7.990 BETA(5) = 7.760

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/6W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.1629	-.0209	.1726	.3454	.2317	.2192	.2461
.020				-.3626	-.4233	-.4366	-.4161
.030			.0166				
.040		-.0121					
.049			-.0196				
.050	-.1386			-.3629	-.4217	-.4284	-.3926
.060				-.2501			
.065			-.0455				
.086		.0242					
.094	-.1119			-.1574	-.3997	-.3966	-.3674
.130							
.163		.0578					
.177			-.0366				
.229	-.0709						
.246		-.0206					
.250				-.1087	-.1817	-.2961	-.4070
.274			-.0086				
.362	.0285						
.390		.0164					
.405				-.0610	.0027		-.3333
.402			.0113				
.497	-.0603						

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OF POOR QUALITY

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DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC02-716 1A14 Q1+T1B+312B+AT11 LOWER WING

ALPHA01 (1) = -7.000 BETA0 (5) = 7.700

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/CM	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CM							
.520							
.585							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.828							
.834							
.851							
.857							
.865							
.900							
.905							
.920							
.935							
.965							

ALPHA01 (2) = -4.000 BETA0 (1) = -7.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/CM	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CM							
.000							
.020							
.030							
.040							
.048							
.050							
.060							
.065							
.068							
.094							
.150							
.163							
.177							
.229							
.248							
.250							
.274							
.302							



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083111

ARC97-716 1A14 Q1+712+512N5+7111 LOWER WING

ALPHA(1) = -4.080 BETA(1) = -7.980

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW		.0497		.1580	.1121		-.1827
.580							
.400			.1807				
.402							
.497	.0810						
.570			.3700	.2965			
.585		.3311					
.600							
.630							-.1592
.700	.4123			.2191		.2826	
.725			.1713				
.750					.1684	.0418	
.760		.0307		.0294	.0566		
.775		-.1148					
.808							
.834	-.2073			-.1451	-.0566	-.0036	
.830		-.2428					
.837							
.865	-.2500			-.2449			.0077
.900	-.3002		-.3297	-.2097			
.905			-.3277		.0000		
.930		-.3859					
.933							
.965	-.3833						

ALPHA(2) = -4.080 BETA(2) = -4.110

SECTION (2) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW		.0294	.3357	.6304	.9804	.5193	.5722
.000							
.020				-.2024	-.2760	-.3057	-.2590
.030			.0373				
.040		-.0114					
.046			-.0075				
.050	-.0103			-.2348	-.2396	-.3352	-.3390
.060				-.2265			
.065		-.0737					
.086							
.0852							
.594	-.0334						
.150				-.1745	-.2511	-.3093	-.3225
.165		.0572					
.177			-.0987				
.229	-.0087						

TABULATED PRESSURE DATA - 1A14B - VOL. 2

(883111)

ARC97-716 1A14 Q1712-312N25-A711 LOWER WING

DATE 27 JAN 75

ALPHAO (2) = -4.050 BETA0 (2) = -4.110

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/0W .8990 .3640 .4270 .5340 .6730 .7600 .8870

X/CV						
.248	-.0288					
.250		-.1338	-.2591	-.2667	-.2922	
.274		-.0688				
.362	.0213					
.393		-.0321				
.402			.0449	-.1205	-.2449	
.497	-.0142					
.590			.1926	.1354		
.565						
.600			-.2109			
.650					-.2388	
.700	.2718			.1682	.1591	
.725			.1394			
.750				.1574	-.1167	
.780		-.0021				
.775		-.1395	.0046	.0780		
.808						
.834	-.2253					
.850			-.1674	-.0804	-.0151	
.857		-.2602				
.865	-.2924					
.900	-.3094		-.2653		-.0294	
.905		-.3434	-.2202			
.920			-.3465	.0000		
.953		-.3948				
.965	-.3800					

ALPHAO (2) = -4.030 BETA0 (3) = -.140

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/0W .8990 .3640 .4270 .5340 .6730 .7600 .8870

X/CV						
.000	-.0316	-.0250	.2447	.3066	.4874	.4202
.020				-.2569	-.3256	-.3315
.030			-.0267			-.2981
.040		-.0361				
.048			-.0566			
.050	-.0620			-.2797	-.3536	-.3960
.080				-.2599		-.3700
.085			-.0728			
.086		-.0181				
.094	-.0459					

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A145 - VOL. 2

(R03L11)

ARC07-716 1A14 01+712+312N25+711 LOWER WING

ALPHA(1 2) = -4.030 BETA(1 3) = -.140

SECTION (1) LOWER WING	DEPENDENT VARIABLE CP
V/W	.2990 .3640 .4270 .5340 .6730 .7600 .8870
M/CW	
.130	
.163	.0164
.177	-.1066
.229	-.0613
.246	-.0663
.250	
.274	-.0757
.362	-.0564
.390	-.0116
.400	
.402	.0222
.497	.0457
.530	-.0379
.563	
.600	.1192
.650	
.700	.1431
.723	
.730	.0626
.760	
.773	-.0665
.806	-.1921
.834	-.2736
.850	
.857	-.2039
.863	-.1165
.900	-.0624
.903	
.905	-.2371
.923	-.2976
.953	-.3272
.965	-.2562
	.0000
	-.3734
	-.3860
	-.3451

ALPHA(1 2) = -4.030 BETA(1 4) = 3.760

SECTION (1) LOWER WING	DEPENDENT VARIABLE CP
V/W	.2990 .3640 .4270 .5340 .6730 .7600 .8870
M/CW	
.000	-.1231
.020	-.0663
.030	.1977
.040	.3685
.046	.3732
.050	.4344
	-.2967
	-.3362
	-.3299
	-.2922
	-.0355
	-.0636
	-.0037
	-.2003
	-.2968
	-.3492
	-.3576

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 195

(083111)

ARC97-716 1A14 01-T12-S12N2-A111 LOWER WING

ALPHA(2) = -4.040 BETA(5) = 7.760

SECTION (1) LOWER WING	DEPENDENT VARIABLE CP				
Y/BW	.2990	.3840	.4670	.5340	.6730 .7600 .8670
X/CW					
.000	-.1977	-.0226	.1667	.4303	.3352 .2661 .3301
.020				-.1737	-.3243 -.3626 -.3475
.030			.0940		
.040		-.0267			
.046			.0471		
.050	-.0475			-.1274	-.2654 -.3379 -.3632
.060				-.0835	
.065			.0076		
.066		.0366			
.094	-.0562				
.130				-.0560	-.1063 -.2329 -.3435
.163		.0520			
.177			.0276		
.229	-.0625				
.246		-.0051		-.0031	-.0692 -.1066 -.3342
.250					
.274			.0329		
.362	.0204	.0396		.0312	.0003 -.0566
.400					
.402			.0244		
.497	.0234			-.0011	.0314
.530					
.565			.0051		
.600					-.0230
.630				-.1065	
.700	-.0170			-.1673	
.725					
.730			-.2524		-.0991 -.0671
.760				-.2691	-.1641
.775					
.808			-.2969		
.834	-.2673				
.850			-.3676	-.3430	-.2867 -.2283
.857					
.865	-.3226				
.900	-.3213			-.3646	
.905			-.3610	-.3455	-.1914
.930				-.2362	.0000
.935			-.2473		
.965	-.2321				

009111)

DATE 27 JAN 79
 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ARC92-716 1A14 Q1+T12+312N25+AT11 LOWER WING

ALPHA(3) = -.200 BETA(1) = -7.920		DEPENDENT VARIABLE CP			
SECTION (1) LOWER WING					
1/8W	2/8W	3/8W	4/8W	5/8W	6/8W
1/CW					
.000	.1498	.0634	.4934	.7800	.7706
.020					.8951
.040					.7549
.060					-.0402
.080					
.100					
.120					
.140					
.160					
.180					
.200					
.220					
.240					
.260					
.280					
.300					
.320					
.340					
.360					
.380					
.400					
.420					
.440					
.460					
.480					
.500					
.520					
.540					
.560					
.580					
.600					
.620					
.640					
.660					
.680					
.700					
.720					
.740					
.760					
.780					
.800					
.820					
.840					
.860					
.880					
.900					
.920					
.940					
.960					
.980					
1.000					

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 187

ARCS9-716 1A14 Q1+712+512N25+AT11 LOWER WING

(RBSL11)

ALPHA(1 3) = -.200 BETA(1 2) = -.4100

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/W	.2990	.3640	.4270	.5340	.6730	.7600	.8870
K/CU							
.000	.0714	.0116	.3941	.6997	.6666	.6190	.6664
.020				-.0690	-.1335	-.1712	-.1039
.030			.1645				
.040		.0631					
.048			.0733				
.070	.0608			-.0908	-.1292	-.1729	-.1857
.080				-.0520			
.085			.0066				
.086		.0347					
.094	-.0486						
.130		.0934		-.0630	-.0915	-.1218	-.1496
.163							
.177			-.0394				
.229	.0546						
.246		.0113					
.250				-.0151	-.0402	-.0728	-.0962
.274			-.0365				
.362	.0841						
.390		.0237					
.400			.1886	.2058	.1434		-.0646
.402							
.497	.0109			.4447	.4523		
.530			.3896				
.563							
.600							.1762
.650					.3314		
.700	.3815			.2204			
.725				.1776			
.730					.1552		.2007
.760			.0393				
.775				.0271	.1001		
.808			-.1049				
.834	-.1843						
.850				-.1411	-.0805	-.0160	
.857			-.2397				
.885	-.2495						
.900	-.3054						
.905			-.3260	-.2404			-.0151
.920				-.2123			
.953			-.3231				.0720
.963	-.3039		-.3059				

(063111)

TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CL-712-S12N2-A711 LOWER WING

DATE 27 JAN 73

ALPHA(3) = -.210 BETA(3) = -.170

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

V/DL	.8990	.3840	.4870	.8940	.8730	.7800	.8870
M/CV							
.800	-.0247	-.0583	.3037	.6141	.5949	.5352	.5638
.820				-.1009	-.1795	-.2078	-.1489
.830			.1178				
.840		-.0318					
.848			.0772				
.850	-.0191			-.1082	-.1751	-.2156	-.2244
.860				-.1032			
.865			.0124				
.868		.0279					
.894	-.0437						
.130				-.0713	-.0995	-.1415	-.1661
.163		.0712					
.177			-.0134				
.229	-.0347						
.246		.0248					
.250				.0349	-.0575	-.1092	-.1294
.274			.0873				
.362	-.0321						
.390		.1169					
.403			.1581	.1717	.1351		-.0188
.402							
.497	.0796			.2198	.2144		
.550			.2087				
.565							
.600						.2948	.1121
.620					.2004		
.700	.2291			.1375			
.725						.1348	.1651
.730							
.760			-.0193	-.0076	.0748		
.775			-.1478				
.808							
.834	-.1817						
.850				.11709	-.0885	-.0392	
.857			-.2645				
.863	-.2049						
.900	-.3002			-.2675			-.0462
.905			-.3332	-.2365			
.920				-.3489		.0000	
.933			-.3821				
.985	-.3843						



(R83L11)

ARC97-716 1A14 Q1-T12-S12M25-AT11 LOWER WING

ALPHA(3) = -.210 BETA(4) = 3.810

SECTION 1 (LOWER) WING DEPENDENT VARIABLE CP

V/W	.2990	.3040	.4270	.5340	.6730	.7600	.8870
1/CV							
.000	-.1228	-.1587	.2846	.5492	.5864	.5387	.5728
.025				.0598	-.0432	-.1596	-.1194
.050			.2286				
.075		-.0518					
.100			.1692				
.125	-.0906			.0183	.0085	-.0861	-.1575
.150				.0060			
.175			.1247				
.200		.0189					
.225	-.1131			.0207	.0555	-.0080	-.0813
.250		.1518					
.275	-.1191	.0952					
.300			.1033	.0719	.1061	-.0818	.0330
.325	.0872	.1049					
.350			.1294	.2214	.2404		.1291
.375	.0792			.1212	.1261		
.400		.1280					
.425						.1872	.0860
.450	.0808		-.0040	.1355			
.475						.0831	.1003
.500		-.1593					
.525			-.1126	.0175			
.550		-.2417					
.575							
.600	-.8231			-.2430	-.1392	-.0835	
.625		-.8840					
.650							
.675	-.8402			-.3219			-.0919
.700	-.5484			-.3548	-.2721	.0000	
.725							
.750				-.3364			
.775							
.800							
.825							
.850							
.875							
.900							
.925							
.950							
.975							
.999							

ARC97-718 1A14 CR+T12+SI2NE+AT11 LOWER WING

(RESULTS)

ALPHA(13) = -.218 BETA(13) = 7.740

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/W	2980	3040	4870	5340	6750	7600	8870
M/CW							
.000	-.1636	-.0538	.1647	.4661	.4453	.3660	.4299
.020				.0473	-.1298	-.2253	-.1908
.030			.1674				
.040		-.0110					
.048			.1169				
.050	-.0559			.0290	-.0693	-.1401	-.1776
.060				.0367			
.065			.0942				
.068		.0639					
.084	-.0697						
.120				.0503	-.0092	-.0923	-.1531
.163		.1328					
.177			.0860				
.229	-.0334						
.246		.0596					
.250			.0959	.0766	.0369	.0511	.0101
.274							
.362	.0673						
.390		.0925					
.400			.1100	.0930	.0960		.0722
.402							
.497	.0289		.0626	.0443	.1010		
.530							
.600						.0376	.0814
.650				-.1546	-.0696		
.700	.0209					-.0803	-.0402
.725							
.730							
.760		-.2117		-.2362	-.1593		
.775			-.2678				
.828							
.834	-.2962						
.850				-.3167	-.2616	-.2143	
.857			-.3403				
.863	-.3103						
.920	-.3122						
.903		-.3782		-.3841	-.3397		-.2020
.930							
.933			.2534			.0000	
.963	-.2257		-.2381				



(R23L11)

ARC97-716 1A14 Q1+T12+S12N29+A711 LOWER WING

ALPHA 4) = 5.900 PETA (1) = -7.000

SECTION (1) LOWER WING

7/8W	.2990	.3640	.4270	.5340	.6750	.7800	.8870
------	-------	-------	-------	-------	-------	-------	-------

12/11

.000	.1108	.0871	.4999	.8821	.9499	.7930	.6332
------	-------	-------	-------	-------	-------	-------	-------

6879	6880	6881	6882
6883	6884	6885	6886
6887	6888	6889	6890
6891	6892	6893	6894
6895	6896	6897	6898
6899	6900	6901	6902
6903	6904	6905	6906
6907	6908	6909	6910
6911	6912	6913	6914
6915	6916	6917	6918
6919	6920	6921	6922
6923	6924	6925	6926
6927	6928	6929	6930
6931	6932	6933	6934
6935	6936	6937	6938
6939	6940	6941	6942
6943	6944	6945	6946
6947	6948	6949	6950
6951	6952	6953	6954
6955	6956	6957	6958
6959	6960	6961	6962
6963	6964	6965	6966
6967	6968	6969	6970
6971	6972	6973	6974
6975	6976	6977	6978
6979	6980	6981	6982
6983	6984	6985	6986
6987	6988	6989	6990
6991	6992	6993	6994
6995	6996	6997	6998
6999	7000	7001	7002
7003	7004	7005	7006
7007	7008	7009	7010
7011	7012	7013	7014
7015	7016	7017	7018
7019	7020	7021	7022
7023	7024	7025	7026
7027	7028	7029	7030
7031	7032	7033	7034
7035	7036	7037	7038
7039	7040	7041	7042
7043	7044	7045	7046
7047	7048	7049	7050
7051	7052	7053	7054
7055	7056	7057	7058
7059	7060	7061	7062
7063	7064	7065	7066
7067	7068	7069	7070
7071	7072	7073	7074
7075	7076	7077	7078
7079	7080	7081	7082
7083	7084	7085	7086
7087	7088	7089	7090
7091	7092	7093	7094
7095	7096	7097	7098
7099	7100	7101	7102
7103	7104	7105	7106
7107	7108	7109	7110
7111	7112	7113	7114
7115	7116	7117	7118
7119	7120	7121	7122
7123	7124	7125	7126
7127	7128	7129	7130
7131	7132	7133	7134
7135	7136	7137	7138
7139	7140	7141	7142
7143	7144	7145	7146
7147	7148	7149	7150
7151	7152	7153	7154
7155	7156	7157	7158
7159	7160	7161	7162
7163	7164	7165	7166
7167	7168	7169	7170
7171	7172	7173	7174
7175	7176	7177	7178
7179	7180	7181	7182
7183	7184	7185	7186
7187	7188	7189	7190
7191	7192	7193	7194
7195	7196	7197	7198
7199	7200	7201	7202
7203	7204	7205	7206
7207	7208	7209	7210
7211	7212	7213	7214
7215	7216	7217	7218
7219	7220	7221	7222
7223	7224	7225	7226
7227	7228	7229	7230
7231	7232	7233	7234
7235	7236	7237	7238
7239	7240	7241	7242
7243	7244	7245	7246
7247	7248	7249	7250
7251	7252	7253	7254
7255	7256	7257	7258
7259	7260	7261	7262
7263	7264	7265	7266
7267	7268	7269	7270
7271	7272	7273	7274
7275	7276	7277	

.000

.049 **.5170**

20.3	6817	433	7891	0051	020
20.4	6818	434	7892	0052	020
20.5	6819	435	7893	0053	020
20.6	6820	436	7894	0054	020
20.7	6821	437	7895	0055	020
20.8	6822	438	7896	0056	020
20.9	6823	439	7897	0057	020
21.0	6824	440	7898	0058	020
21.1	6825	441	7899	0059	020
21.2	6826	442	7900	0060	020
21.3	6827	443	7901	0061	020
21.4	6828	444	7902	0062	020
21.5	6829	445	7903	0063	020
21.6	6830	446	7904	0064	020
21.7	6831	447	7905	0065	020
21.8	6832	448	7906	0066	020
21.9	6833	449	7907	0067	020
22.0	6834	450	7908	0068	020
22.1	6835	451	7909	0069	020
22.2	6836	452	7910	0070	020
22.3	6837	453	7911	0071	020
22.4	6838	454	7912	0072	020
22.5	6839	455	7913	0073	020
22.6	6840	456	7914	0074	020
22.7	6841	457	7915	0075	020
22.8	6842	458	7916	0076	020
22.9	6843	459	7917	0077	020
23.0	6844	460	7918	0078	020
23.1	6845	461	7919	0079	020
23.2	6846	462	7920	0080	020
23.3	6847	463	7921	0081	020
23.4	6848	464	7922	0082	020
23.5	6849	465	7923	0083	020
23.6	6850	466	7924	0084	020
23.7	6851	467	7925	0085	020
23.8	6852	468	7926	0086	020
23.9	6853	469	7927	0087	020
24.0	6854	470	7928	0088	020
24.1	6855	471	7929	0089	020
24.2	6856	472	7930	0090	020
24.3	6857	473	7931	0091	020
24.4	6858	474	7932	0092	020
24.5	6859	475	7933	0093	020
24.6	6860	476	7934	0094	020
24.7	6861	477	7935	0095	020
24.8	6862	478	7936	0096	020
24.9	6863	479	7937	0097	020
25.0	6864	480	7938	0098	020
25.1	6865	481	7939	0099	020
25.2	6866	482	7940	0100	020

0.083 .2234

.000 **.2046**

DATE _____ **TIME** _____

1000

	1977	1978
1. <i>Chrysomelids</i>	1.77	.1732

1000

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																								
1990	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.00	2.01	2.02	2.03	2.04	2.05	2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.50	2.51	2.52	2.53	2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.67	2.68	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77	2.78	2.79	2.80	2.81	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.05	3.06	3.07	3.08	3.09	3.10	3.11	3.12	3.13	3.14	3.15	3.16	3.17	3.18	3.19	3.20	3.21	3.22	3.23	3.24	3.25	3.26	3.27	3.28	3.29	3.30	3.31	3.32	3.33	3.34	3.35	3.36	3.37	3.38	3.39	3.40	3.41	3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.61	3.62	3.63	3.64	3.65	3.66	3.67	3.68	3.69	3.70	3.71	3.72	3.73	3.74	3.75	3.76	3.77	3.78	3.79	3.80	3.81	3.82	3.83	3.84	3.85	3.86	3.87	3.88	3.89	3.90	3.91	3.92	3.93	3.94	3.95	3.96	3.97	3.98	3.99	4.00	4.01	4.02	4.03	4.04	4.05	4.06	4.07	4.08	4.09	4.10	4.11	4.12	4.13	4.14	4.15	4.16	4

.274 .4933

295. 1000

0235
0085
0150
0222

402

156

1995

600 .3361

059.

[illegible]

0.790	.1570	.1609
-------	-------	-------

[illegible]

10446

2061 - 250.

[illegible]

.863 - .9144

.9275	-.2730	-.8056	-.0443
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1997-1998

[illegible]

.963 -.594

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083111

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-710 1A14 Q1-T12-S12M25-A711 LOWER WING

ALPHA(4) = 3.000 BETA(2) = -4.130

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
Y/BW		.2990	.3040	.4070	.5340	.6730	.7800	.8670			
Z/CW											
.000	.0411	-.0079	.4200	.7950	.7996	.7072	.7241				
.020			.2612	.2092	.1896	.1470	.1400				
.030			.1268								
.040				.2123							
.048					.0988	.0967	.0863	.0970			
.050	.0402				.0713						
.060				.1770							
.063											
.068			.0871								
.094	-.0029				.0945	.1418	.1708	.2079			
.130			.1374								
.163				.1217							
.177											
.229	.1097		.0927		.2646	.2970	.2932	.2132			
.248											
.250				.1698							
.274											
.302	.1361		.2620								
.390					.2079	.2135		.3815			
.400				.2691							
.402											
.497	.1737				.5237	.4947					
.520				.3014							
.563											
.600								.3224			
.630					.2036	.2360					
.700	.4824						.1480	.1522			
.725											
.730				.0691							
.760					.0386	.1203					
.773				-.0727							
.808											
.834	-.1634				-.1166	-.0396	-.0803				
.830											
.857				-.2181							
.883	-.2297										
.900	-.2822				-.2207						
.903					-.3093	-.2009					
.930						-.3037	.0000				
.953											
.963	-.3415										



TABLE 2
TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 Q1+712+512N25+AT11 LOREN VINC

(1575264)

$$\Delta \text{E}(\text{O}^{\text{II}}) = 3.920 \quad \Delta \text{E}(\text{O}^{\text{I}}) = -1.00$$

ARC97-716 1A14 C1-T12-S12N25A111 LOWER WING

[illegible]

0833111

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARCS7-71-6 1A14 Q1-712-S12MS-A111 LOWER WING

ALPHAO1 4) = 3.930 BETAO (4) = 3.770

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/BW	.8950	.9640	.4270	.5340	.6730	.7800	.8870
X/CM							
.000	-.1371	-.2624	.2371	.5770	.6931	.6342	.6432
.020				.2855	.3159	.2600	.2771
.030			.3223				
.040		-.0839					
.048			.2502				
.050	-.0756			.2011	.2323	.2480	.2502
.060			.1922	.1774			
.065							
.068		.0366					
.094	-.0842			.1506	.2490	.2614	.2565
.130		.2176					
.163			.1756				
.177	.0077						
.229		.1329		.2642	.3045	.2614	.2290
.248			.1882				
.250							
.274	.1399	.1832					
.302				.2236	.2023		.1671
.390			.2566				
.400				.1866	.2206		
.402	.1609		.1756				.2084
.497					.1601	.2926	
.520				.0360			
.569							
.600				-.1224	-.0481	.0383	
.620			-.2266				
.700	-.1532			-.2242	-.1192	-.0790	
.723							
.730						.1047	.1204
.780							
.773							
.806							
.834	-.2077						
.850							
.857			-.2861				
.865	-.2398						
.970	-.3302			-.3043			-.0955
.905			-.3365	-.2621			
.930				-.3767		.0000	
.933			-.3686				
.965	-.2968						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A140 - VOL. 2

(HBSL11)

ARC97-716 1A14 01-T12-S12N25-A711' LOWER WING

ALPHA(0.4) = 3.940 BETA(0.5) = 7.740

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2980	.3640	.4270	.5340	.6730	.7600	.8870
.000	-.2397	-.1274	.0768	.3010	.4795	.4835	.4932	
.020			.1882	.1946	.1955	.1912	.1826	
.030		-.0517						
.040			.1727	.1639	.1131	.1568	.1351	
.050	-.0757			.1546				
.060			.1677					
.085			.0852					
.094	-.0511			.1726	.1475	.1645	.1330	
.120			.1635					
.163			.1621					
.177								
.229	.0098		.1334		.1559	.1875	.1641	.1311
.246								
.274			.1637					
.302	.1323							
.390		.1578						
.400			.1641		.1549	.1465		.1165
.402								
.457	.1919				.0993	.0941		
.530			.1011					
.585								.0960
.600								
.650		.0000			-.1208	-.0531		
.700								
.725								
.750			-.1936					
.760					-.1951	-.1256		
.775			-.2546					
.808								
.834	-.2405				-.2917	-.2385	-.1925	
.850								
.857			-.3211					
.867	-.2999							
.905	-.3331				-.3443			-.1939
.905			-.3914			-.3213		
.920					-.3483			.0000
.935			-.2522					
.965	-.2488							

ORBSL11)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
 ARCB7-716 1A14 Q8+712-S12MS+AT11 LOWER WING

ALPHA(5) = 0.040 BETA(1) = -7.930

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP			
Y/BW		.3940	.4270	.5340	.6790 .7800 .8870
X/BL					
.000	.1348	.0863	.5821	.9780	.8936 .6157 .6143
.020			.4536	.5757	.5092 .6107 .6341
.030		.1993			
.040			.3967		
.048				.4628	.4719 .4986 .5450
.050	.1795			.3694	
.060			.3336		
.065		.2120			
.068					
.094	.1572			.2654	.3572 .4185 .4658
.130		.3037			
.165			.4169		
.177					
.229	.1682				
.246		.3227		.2077	.3325 .4492 .4766
.250			.2127		
.274					
.362	.2054				
.390		.2810		.5595	.5442 .4329
.400			.3230		
.402					
.497	.3054			.3801	.3682
.530			.4783		
.565					.2729
.600					.2396
.650				.1375	
.700	.3620		.1519		.0878 .1269
.725					
.730			.0570		
.760				-.0029	.0646
.775			-.0798		
.808					
.834	-.1866			-.1185	-.0578 -.0531
.850			-.2212		
.857					
.865	-.2430			-.1965	
.900	-.3274		-.3025	-.1873	-.3753
.905			-.2763		.0000
.930			-.3600		
.953					
.965	-.3635				



(089111)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 Q1712-S12N23-AT11 LOWER WING

ALPHAO(5) = 0.000 BETAO (2) = -4.190

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/W	.2990	.3640	.4270	.5340	.6750	.7600	.8870
X/CW							
.000	.0524	.0031	.4425	.8416	.8222	.7512	.7306
.020				.4017	.5496	.5632	.5837
.030			.3769				
.040		.1240					
.048			.2996				
.050	.1024			.3490	.4340	.4892	.4990
.080				.3775			
.086			.2176				
.094		.1602					
.120	.1120			.3254	.3420	.3689	.4369
.163		.2516					
.177			.3459				
.229	.1017	.1909					
.246				.2611	.3080	.3795	.4033
.250			.2620				
.274							
.362	.1316	.3267					
.390				.2810	.3680		.4266
.400			.2324				
.402							
.497	.3137			.4488	.4113		
.520			.4610				.2751
.565							
.600							
.630					.2529		
.700	.4824			.1386			
.729				.1496			
.750						.0865	.1094
.760			.0393				
.775				-.0053	.0601		
.808			-.0963				
.834	-.1868						
.850				-.1361	-.0732	-.0660	
.857			-.2572				
.865	-.2570						-.0669
.900	-.3198			-.2253			
.905			-.3215		-.2032		
.920				-.3029		.0000	
.935			-.3794				
.985	.73612						

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ARC37-716 1A14 Q1+T12+SI2N2+AT11 LOWER WING

ALPHA04 5) = 0.030 BETA0 (3) = -.190

SECTION (3) LOWER WING DEPENDENT VARIABLE CP

Y/CM	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CM							
.000	-.0348	-.1098	.3230	.7433	.7292	.6999	.6422
.020				.4459	.4795	.5036	.5076
.030			.3670				
.040		.0399					
.048			.2721				
.050	.0211			.3440	.3713	.4096	.4289
.060				.3083			
.069			.2707				
.086		.1360					
.094	.0367						
.120		.2436		.2321	.2667	.3253	.3756
.163			.2770				
.177	.0367						
.222		.1626		.2181	.2621	.3030	.3396
.248							
.250			.2157				
.274	.1616						
.362		.2263		.2994	.2920		.3647
.390			.2289				
.402							
.497	.2256			.3606	.4162		
.580			.3473				
.585							.2632
.600					.2564		
.630				.1199	.1508		
.700	.3291					.0847	.0924
.725			-.0036		.0476		
.760			-.1346				
.773				-.0308			
.809			-.2006				
.834	-.1970			-.1608	-.0969	-.0799	
.850							
.857							
.863	-.2534			-.2590			-.1032
.900	-.3240						
.905			-.3427	-.2562			
.950				-.3369		.0000	
.953			-.3976				
.983	-.3436						



DATE 27 JAN 75
 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ARC97-716 1A14 Q1A712+SIENES+AT11 LOWER WING

(083L11)

ALPHA(5) = 0.050 BETA(4) = 3.940

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.1837	-.3319	.0997	.5769	.7075	.6482	.6265
.020				.3961	.5236	.5425	.5195
.030			.3202				
.040		-.0281					
.048			.2697				
.050	-.0204			.2671	.4257	.4401	.4461
.060				.3011			
.085			.2459				
.088		.1020					
.094	-.0056			.3331	.3264	.3367	.3760
.130		.2375					
.163			.2300				
.177							
.229	-.0330	.1637		.2328	.2667	.3157	.3288
.246			.2641				
.250							
.274							
.362	.1700	.2558		.2321	.2943		.3490
.390			.2459				
.400				.2214	.3467		
.402			.1960				.2693
.457	.2053					.2607	
.520							
.585				.0046		.0849	.0963
.600							
.630	.1734			.1263			
.700							
.725							
.730							
.760			-.1211				
.775			-.2225	-.1139	.0256		
.806							
.834	-.2127			-.2462	-.1205	-.0855	
.850			-.3026				
.857							
.865	-.2994			-.3205			-.1059
.900	-.3189						
.905			-.3513	-.2509			
.930				-.3902		.0000	
.935			-.3676				
.935	-.2734						

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(RESULTS)

DATE 27 JAN 75

ARC07-216 1A14 Q1-T12-S12MS-AT11 LOWER WING

ALPHA(5) = 0.000 BETA(5) = 7.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.0900	.3040	.4870	.5340	.6730	.7000	.8870
X/CW							
.000	-.2170	-.1998	-.0127	.2893	.5456	.5059	.4858
.020				.2757	.3610	.3074	.3093
.030			.1638				
.040		-.0558					
.048			.1989				
.050	-.0287			.2586	.2789	.3073	.3143
.080				.2166			
.095			.2073				
.086		-.0777					
.094	-.0121			.2043	.2277	.2426	.2682
.120							
.163		.1811					
.177			.2036				
.229	.0564						
.246		.1731					
.230				.1870	.1951	.2230	.2164
.274			.2023				
.382	.1037						
.380		.1841					
.400			.1920				.1788
.402				.1723	.1723		
.497	.1853						
.530			.1183	.1029	.1239		
.583							.2006
.600					.1900		
.650				.0162			
.700	.0878			-.0903			
.723					.6.66	.0476	
.780			-.1810	-.1653	-.0703		
.773			-.2309				
.818				-.2848	-.1933	-.1481	
.834	-.2374						
.850		-.2944					
.897							
.883	-.3008						-.1393
.900	-.3238			-.3809			
.903			-.3377	-.3006			
.930				-.3666		.0000	
.933			-.2918				
.983	-.2354						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01+712+58265+711 LOWER WING (083112) (10 JAN 74)

REFERENCE DATA

SRP = 2.4210 36. FT. XMRP = 29.5000 INCHES
 LRP = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7097 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/DW	.2990	.3640	.4270	.5340	.6750	.7800	.8870
X/CW	.000	.1183	.1892	.4841	.8853	.8325	.7710
.020				.0334	-.0002	-.0224	-.0177
.030			.1990				
.040		.1503					
.048			.1424				
.050	.8267			-.0334	-.0304	-.0596	-.0644
.060			.0650	-.0370			
.085		.1386					
.094	.8156			-.0474	-.0471	-.0562	-.0656
.150		.1661					
.163			.0485				
.177							
.229	.1430						
.248		.0884					
.290			.0502	-.0137	-.0540	-.0490	-.0681
.274							
.362	.1344						
.390		.0687					
.400			.0307	.0065	-.0366		-.0504
.402							
.497	.0366			.1277	.0035		
.530			.1817				
.585							
.600							
.690							
.700	.3373				-.0616		-.0631
.723			.1391	.0164			
.790							
.760		.1317			-.0668	-.0942	
.775			.2973	.0032			
.808		.1540					
.834	-.0305						
.850			.1475	-.0879	-.1009		
.857		.0430					
.869	-.1070						
.900	-.1347		.0329				-.1422
.903		-.0504	.0559				

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOORR = .000

TABULATED PRESSURE DATA - 1A14B - VOL. 2

DATE 17 JAN 73

ARC97-716 1A14 01-712+SIGN5+AT11 LOWER WING

BETA0 (2) = -4.070

REGRESSION : \log_{10} CP

[illegible]

AD/x

0.97	-0.0101	-0.1764
0.63	-0.1390	-0.0043
0.25	-0.0000	-0.0000

	.0016	
	- .0018	
	.0013	

03.930

933 2.1739

$\text{CWA}(\beta) = -7.980$
 $\text{BETA}(\beta) = -.050$

SECTION 111025 WING

DEPENDENT VARIABLE CP

	1960	1961	1962	1963	1964	1965
... ..	8.00	10.00	12.00	14.00	16.00	18.00
... ..	10.00	12.00	14.00	16.00	18.00	20.00
... ..	12.00	14.00	16.00	18.00	20.00	22.00
... ..	14.00	16.00	18.00	20.00	22.00	24.00
... ..	16.00	18.00	20.00	22.00	24.00	26.00
... ..	18.00	20.00	22.00	24.00	26.00	28.00
... ..	20.00	22.00	24.00	26.00	28.00	30.00
... ..	22.00	24.00	26.00	28.00	30.00	32.00
... ..	24.00	26.00	28.00	30.00	32.00	34.00
... ..	26.00	28.00	30.00	32.00	34.00	36.00
... ..	28.00	30.00	32.00	34.00	36.00	38.00
... ..	30.00	32.00	34.00	36.00	38.00	40.00
... ..	32.00	34.00	36.00	38.00	40.00	42.00
... ..	34.00	36.00	38.00	40.00	42.00	44.00
... ..	36.00	38.00	40.00	42.00	44.00	46.00
... ..	38.00	40.00	42.00	44.00	46.00	48.00
... ..	40.00	42.00	44.00	46.00	48.00	50.00
... ..	42.00	44.00	46.00	48.00	50.00	52.00
... ..	44.00	46.00	48.00	50.00	52.00	54.00
... ..	46.00	48.00	50.00	52.00	54.00	56.00
... ..	48.00	50.00	52.00	54.00	56.00	58.00
... ..	50.00	52.00	54.00	56.00	58.00	60.00
... ..	52.00	54.00	56.00	58.00	60.00	62.00
... ..	54.00	56.00	58.00	60.00	62.00	64.00
... ..	56.00	58.00	60.00	62.00	64.00	66.00
... ..	58.00	60.00	62.00	64.00	66.00	68.00
... ..	60.00	62.00	64.00	66.00	68.00	70.00
... ..	62.00	64.00	66.00	68.00	70.00	72.00
... ..	64.00	66.00	68.00	70.00	72.00	74.00
... ..	66.00	68.00	70.00	72.00	74.00	76.00
... ..	68.00	70.00	72.00	74.00	76.00	78.00
... ..	70.00	72.00	74.00	76.00	78.00	80.00
... ..	72.00	74.00	76.00	78.00	80.00	82.00
... ..	74.00	76.00	78.00	80.00	82.00	84.00
... ..	76.00	78.00	80.00	82.00	84.00	86.00
... ..	78.00	80.00	82.00	84.00	86.00	88.00
... ..	80.00	82.00	84.00	86.00	88.00	90.00
... ..	82.00	84.00	86.00	88.00	90.00	92.00
... ..	84.00	86.00	88.00	90.00	92.00	94.00
... ..	86.00	88.00	90.00	92.00	94.00	96.00
... ..	88.00	90.00	92.00	94.00	96.00	98.00
... ..	90.00	92.00	94.00	96.00	98.00	100.00

FD-36

.000	.0493	.0427	.2854	.5632	.4876	.4589	.5321
-				- .0666	- .1076	- .1134	- .0863

.0750

	0.0	.9344	.9876
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Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital Status	0.3	0.5	0	1
Education	12.5	1.5	10	15
Income	35000	15000	10000	60000
Health	0.7	0.4	0	1
Exercise	0.2	0.4	0	1
Stress	0.6	0.5	0	1
Depression	0.4	0.5	0	1
Life Satisfaction	0.5	0.5	0	1

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0.003
0.003
0.012

.094 .0792

061' 021' 031' 041' 051' 061' 071' 081' 091' 101' 111' 121' 131' 141' 151' 161' 171' 181' 191' 201' 211' 221' 231' 241' 251' 261' 271' 281' 291' 301' 311' 321' 331' 341' 351' 361' 371' 381' 391' 401' 411' 421' 431' 441' 451' 461' 471' 481' 491' 501' 511' 521' 531' 541' 551' 561' 571' 581' 591' 601' 611' 621' 631' 641' 651' 661' 671' 681' 691' 701' 711' 721' 731' 741' 751' 761' 771' 781' 791' 801' 811' 821' 831' 841' 851' 861' 871' 881' 891' 901' 911' 921' 931' 941' 951' 961' 971' 981' 991' 1001' 1011' 1021' 1031' 1041' 1051' 1061' 1071' 1081' 1091' 1101' 1111' 1121' 1131' 1141' 1151' 1161' 1171' 1181' 1191' 1201' 1211' 1221' 1231' 1241' 1251' 1261' 1271' 1281' 1291' 1301' 1311' 1321' 1331' 1341' 1351' 1361' 1371' 1381' 1391' 1401' 1411' 1421' 1431' 1441' 1451' 1461' 1471' 1481' 1491' 1501' 1511' 1521' 1531' 1541' 1551' 1561' 1571' 1581' 1591' 1601' 1611' 1621' 1631' 1641' 1651' 1661' 1671' 1681' 1691' 1701' 1711' 1721' 1731' 1741' 1751' 1761' 1771' 1781' 1791' 1801' 1811' 1821' 1831' 1841' 1851' 1861' 1871' 1881' 1891' 1901' 1911' 1921' 1931' 1941' 1951' 1961' 1971' 1981' 1991' 2001' 2011' 2021' 2031' 2041' 2051' 2061' 2071' 2081' 2091' 2101' 2111' 2121' 2131' 2141' 2151' 2161' 2171' 2181' 2191' 2201' 2211' 2221' 2231' 2241' 2251' 2261' 2271' 2281' 2291' 2301' 2311' 2321' 2331' 2341' 2351' 2361' 2371' 2381' 2391' 2401' 2411' 2421' 2431' 2441' 2451' 2461' 2471' 2481' 2491' 2501' 2511' 2521' 2531' 2541' 2551' 2561' 2571' 2581' 2591' 2601' 2611' 2621' 2631' 2641' 2651' 2661' 2671' 2681' 2691' 2701' 2711' 2721' 2731' 2741' 2751' 2761' 2771' 2781' 2791' 2801' 2811' 2821' 2831' 2841' 2851' 2861' 2871' 2881' 2891' 2901' 2911' 2921' 2931' 2941' 2951' 2961' 2971' 2981' 2991' 3001' 3011' 3021' 3031' 3041' 3051' 3061' 3071' 3081' 3091' 3101' 3111' 3121' 3131' 3141' 3151' 3161' 3171' 3181' 3191' 3201' 3211' 3221' 3231' 3241' 3251' 3261' 3271' 3281' 3291' 3301' 3311' 3321' 3331' 3341' 3351' 3361' 3371' 3381' 3391' 3401' 3411' 3421' 3431' 3441' 3451' 3461' 3471' 3481' 3491' 3501' 3511' 3521' 3531' 3541' 3551' 3561' 3571' 3581' 3591' 3601' 3611' 3621' 3631' 3641' 3651' 3661' 3671' 3681' 3691' 3701' 3711' 3721' 3731' 3741' 3751' 3761' 3771' 3781' 3791' 3801' 3811' 3821' 3831' 3841' 3851' 3861' 3871' 3881' 3891' 3901' 3911' 3921' 3931' 3941' 3951' 3961' 3971' 3981' 3991' 4001' 4011' 4021' 4031' 4041' 4051' 4061' 4071' 4081' 4091' 4101' 4111' 4121' 4131' 4141' 4151' 4161' 4171' 4181' 4191' 4201' 4211' 4221' 4231' 4241' 4251' 4261' 4271' 4281' 4291' 4301' 4311' 4321' 4331' 4341' 4351' 4361' 4371' 4381' 4391' 4401' 4411' 4421' 4431' 4441' 4451' 4461' 4471' 4481' 4491' 4501' 4511' 4521' 4531' 4541' 4551' 4561' 4571' 4581' 4591' 4601' 4611' 4621' 4631' 4641' 4651' 4661' 4671' 4681' 4691' 4701' 4711' 4721' 4731' 4741' 4751' 4761' 4771' 4781' 4791' 4801' 4811' 4821' 4831' 4841' 4851' 4861' 4871' 4881' 4891' 4901' 4911' 4921' 4931' 4941' 4951' 4961' 4971' 4981' 4991' 5001' 5011' 5021' 5031' 5041' 5051' 5061' 5071' 5081' 5091' 5101' 5111' 5121' 5131' 5141' 5151' 5161' 5171' 5181' 5191' 5201' 5211' 5221' 5231' 5241' 5251' 5261' 5271' 5281' 5291' 5301' 5311' 5321' 5331' 5341' 5351' 5361' 5371' 5381' 5391' 5401' 5411' 5421' 5431' 5441' 5451' 5461' 5471' 5481' 5491' 5501' 5511' 5521' 5531' 5541' 5551' 5561' 5571' 5581' 5591' 5601' 5611' 5621' 5631' 5641' 5651' 5661' 5671' 5681' 5691' 5701' 5711' 5721' 5731' 5741' 5751' 5761' 5771' 5781' 5791' 5801' 5811' 5821' 5831' 5841' 5851' 5861' 5871' 5881' 5891' 5901' 5911' 5921' 5931' 5941' 5951' 5961' 5971' 5981' 5991' 6001' 6011' 6021' 6031' 6041' 6051' 6061' 6071' 6081' 6091' 6101' 6111' 6121' 6131' 6141' 6151' 6161' 6171' 6181' 6191' 6201' 6211' 6221' 6231' 6241' 6251' 6261' 6271' 6281' 6291' 6301' 6311' 6321' 6331' 6341' 6351' 6361' 6371' 6381' 6391' 6401' 6411' 6421' 6431' 6441' 6451' 6461' 6471' 6481' 6491' 6501' 6511' 6521' 6531' 6541' 6551' 6561' 6571' 6581' 6591' 6601' 6611' 6621' 6631' 6641' 6651' 6661' 6671' 6681' 6691' 6701' 6711' 6721' 6731' 6741' 6751' 6761' 6771' 6781' 6791' 6801' 6811' 6821' 6831' 6841' 6851' 6861' 6871' 6881' 6891' 6901' 6911' 6921' 6931' 6941' 6951' 6961' 6971' 6981' 6991'

177 -0231

.629 .0917

.0251	-.0034	-.1227	-.1302	-.1577
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6250-
-0000

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	3.562	.9704	1	7
Gender	1.500	.500	1	2
Marital Status	1.500	.500	1	2
Education	3.500	.500	1	5
Income	3.500	.500	1	5
Health	3.500	.500	1	5
Religion	3.500	.500	1	5
Political Affiliation	3.500	.500	1	5
Occupation	3.500	.500	1	5
Home Ownership	3.500	.500	1	5
Auto Ownership	3.500	.500	1	5
Travel Frequency	3.500	.500	1	5
Spending Habits	3.500	.500	1	5
Life Satisfaction	3.500	.500	1	5
Work-Life Balance	3.500	.500	1	5
Community Involvement	3.500	.500	1	5
Environmental Awareness	3.500	.500	1	5
Health Consciousness	3.500	.500	1	5
Financial Stability	3.500	.500	1	5
Relationship Satisfaction	3.500	.500	1	5
Personal Growth	3.500	.500	1	5
Life Goals Achievement	3.500	.500	1	5
Overall Well-being	3.500	.500	1	5

[illegible]

.402 **.0142**

100	.0261	-.0346
100	.0143	

.569 .976

BILL:

1.401
-0.0703

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083112)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCS7-713 1A14 Q1+712+812+813+AT11 LOWER WING

ALPHA(1) = -7.000 BETA(1) = -0.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/OW	.0000	.1640	.4270	.5340	.6730	.7600	.8870
X/CW							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.920							
.933							
.943							

ALPHA(1) = -0.000 BETA(1) = 3.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/OW	.0000	.1640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000							
.020							
.030							
.040							
.048							
.050							
.060							
.065							
.066							
.094							
.120							
.163							
.177							
.229							
.248							
.250							
.274							
.302							
.390							
.400							
.402							
.497							
.520							
.563							
.600							
.520							



(083112)

TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-712-S12M2-A711 LOWER WING

DATE 27 JAN 79

ALPHA(1) = -8.000 BETA(4) = 3.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/8W	.1100	.3640	.6270	.8340	.6730	.7600	.6870
X/CW	.700	.0610		-.0407	-.0440		
.725					-.0765	-.1496	
.750							
.760				-.1091	-.0527	-.0990	
.775				-.1367			
.808							
.834				-.1192	-.0764	-.1088	
.857				-.1457			
.885					-.1622		-.1540
.900				-.1753	-.1164		
.905					.1932	.0000	
.920							
.953				-.2094			
.985				-.2133			

ALPHA(1) = -8.030 BETA(5) = 7.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/8W	.2960	.3640	.6270	.5340	.6730	.7600	.6870
X/CW	.000	-.0332	-.0465	.0974	.3402	.3420	.2547
.020					-.1021	-.1636	-.1768
.030				.0653			
.040			-.0808				
.048				.0443			
.050		-.0204			-.0832	-.1688	-.2126
.060					-.0854		
.085				.0345			
.096		-.0042					
.094		-.0014			-.0966	-.1733	-.2121
.120							-.2227
.163			.0451	.0016			
.177							
.229		-.0416					
.248			.0076				
.250					-.0571	-.1199	-.2033
.274				-.0140			-.2156
.302		-.0333					
.390			-.0054				
.400					.0113	-.0323	-.2017
.402				.0167			
.457		.0080					

083512)

ARC07-71.6 1A14 Q1-T12-S12M2-A131 LOWER WING

ALPHA01 (1) = -0.030 BETA0 (1) = 7.880

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.520				-.0317	-.0349		
.585			-.0243				
.600						-.0712	-.0955
.630							
.700	-.0057			-.0631			
.725							
.730							
.760			-.1512				
.775					-.1223	-.0947	
.808			-.1694				
.834	-.1877						
.850				-.1668	-.1444	-.1269	
.857			-.1836				
.885	-.2089						
.900	-.2031			-.1966			-.1372
.905			-.2109	-.1491			
.920				-.2164		.0000	
.933			-.2170				
.983	-.2024						

ALPHA01 (2) = -4.030 BETA0 (1) = -7.960

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.1019	.1531	.4661	.6833	.8576	.8136	.6912
.020				.1021	.0652	.0368	.0907
.030			.2263				
.040		.1091					
.048			.1677				
.050	.1842			.0320	.0346	.0071	-.0003
.060				.0090			
.065			.0672				
.068		.1479					
.094	.2203						
.130		.1756		.0200	.0063	.0010	.0002
.165							
.177			.0525				
.229	.1423						
.246		.0978					
.250				.0264	-.0099	.0081	.0002
.274			.0571				
.302	.1391						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 01-T12-S12M29-ATT11 LOWER WING

0883.121

ALPHA(1,2) = -4.030 BETA(1,1) = -7.940

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP			
Y/BW	X/CW	.3640	.4270	.5340	.6750 .7600 .8670
.390	.0674			.0217	.0083 .0041
.400					
.402		.0354			
.497	.0380			.1548	.0380
.530			.1769		
.563					
.600					
.630					
.700	.3659				
.725				.1551	.0176
.750					
.760		.1667		.3329	.0803
.773		.1870			
.808				.1907	.0966
.834	-.0364				
.850		.0296			
.855	-.1011			.0750	
.900	-.1450				
.905		-.0398		.0740	
.920				-.0220	.0000
.933		-.1013			
.965	-.1299				

ALPHA(1,2) = -4.030 BETA(1,2) = -3.980

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP			
Y/BW	X/CW	.3640	.4270	.5340	.6750 .7600 .8670
.000	.0369	.0610	.3756	.7475	.7072 .6764 .7336
.005				.0369	-.0014
.030			.1566		-.0219
.040		.0683			
.048			.0684		
.050	-.0189			-.0329	-.0593
.063				-.0593	
.065			.0231		
.066					
.094	.1821				
.120				-.0659	-.0316
.163		.0917			-.0649
.177			-.0042		-.0625
.229	.0585				

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TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1012P-SIGNEZATH1 LOWER WING

DATE 27 JAN 79

ALPHA(2) = -4.030 BETA(2) = -3.980

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BV .2990 .3640 .4270 .5340 .6730 .7600 .8870

X/CW						
.246	.0394					
.250						
.274						
.302						
.390						
.470						
.482						
.497						
.530						
.600						
.630						
.700						
.725						
.730						
.760						
.773						
.809						
.834						
.830						
.837						
.863						
.900						
.903						
.930						
.933						
.963						

ALPHA(2) = -4.040 BETA(3) = -.080

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BV .2990 .3640 .4270 .5340 .6730 .7600 .8870

X/CW						
.006	.0084	.0205	.2336	.9689	.9621	.9670
.020						
.030						
.040						
.048						
.050						
.080						
.083						
.094						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RBSL12)

ARC87-716 1A14 CR+T12+312N23+AT11 LOWER WING

ALPHA(2) = -4.040 BETA(3) = -.060

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7800 .8870

X/CW

.150 -.0607 -.0995 -.1141 -.1140

.163

.177

.229

.248

.250

.274

.362

.390

.400

.402

.497

.550

.563

.600

.650

.700

.725

.750

.760

.775

.808

.834

.890

.857

.865

.900

.905

.950

.953

.965

-.0281

.0144

.0066

.0361

-.0259

-.0100

.0036

.0906

-.0453

.0104

-.0423

-.0416

-.0184

-.1051

.0146

-.1051

-.0175

-.0534

-.0367

-.0880

-.1160

-.1350

.0000

ALPHA(2) = -4.050 BETA(4) = 3.830

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7800 .8870

X/CW

.0000 -.0333 -.0481 .1503 .3904 .3999 .3256 .4145

.080

.030

.040

.049

.050

.0513

-.0153

.0185

-.0902

-.1352

-.1433

-.1465

ARC97-716 1A14 Q1+T12+S12N3+AT11 LOWER WING (083112)

ALPHA(1) = -4.030 BETAO (4) = 3.030

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/W .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CW

.080						
.085						
.086						
.094						
.130						
.163						
.177						
.229						
.246						
.250						
.274						
.362						
.390						
.403						
.402						
.497						
.530						
.565						
.600						
.630						
.700						
.725						
.750						
.760						
.775						
.808						
.834						
.850						
.857						
.865						
.903						
.930						
.953						
.965						



(883112)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 C1+T12+SI2N2+AT11 LOWER WING

DATE 27 JAN 75

ALPHA(2) = -4.070 BETA(5) = 7.030

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	-.0707	-.1149	.0408	.2831	.2855	.2430	.3103
.020				-.0544	-.1398	-.1748	-.1205
.030			.0347				
.040		-.1114					
.048			.0200				
.050	-.0508			-.0557	-.1677	-.1974	-.1739
.080				-.0512			
.085			.0101				
.086		-.0809					
.094	-.0403						
.150				-.0557	-.1166	-.1846	-.1743
.163		-.0115					
.177			-.0230				
.229	-.0690						
.248		-.0244		-.0490	-.6598	-.1379	-.1694
.250							
.274			-.0282				
.362	-.0304	-.0276					
.390				.0092	-.1904		-.1396
.400			.0074				
.402							
.497	-.0163			-.1851	-.1699		
.585			-.0523				
.600							.0407
.650					-.1704		
.700	-.0305			-.1728	-.1852		
.723						-.1660	.0074
.730			-.1402				
.760				-.4066	-.6598		
.775			-.1476				
.808							
.834	-.1804			-.6522	-.1376	-.6550	
.850			-.1790				
.857							
.865	-.2020			-.4093			-.1667
.900	-.2027				-.1529		
.905		-.2149		-.2153			.0000
.920			-.2316				
.953							
.965	-.2164						

ORIGINAL DATA IS
IN FILE 01A14B

R83L12)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 O1+T12+SI2N25+AT11 LOWER MINE

ALPHAO (3) = -.800 BETA0 (1) = -7.940

SECTION (1) LOWER MINE DEPENDENT VARIABLE CP

Y/8W	.8390	.3640	.4270	.5340	.6750	.7800	.8870
X/CM							
.000	.0693	.1522	.4996	.9519	.9240	.8654	.8354
.020				.1706	.1470	.1241	.1850
.030			.2699				
.040		.1743					
.048			.1869				
.050	.0285			.0847	.1171	.0983	.0886
.080				.0545			
.085			.1152				
.086		.1583					
.094	.0641						
.150			.1834	.0611	.0762	.0830	.0874
.163							
.177			.0688				
.229	.1598						
.245		.1026		.0503	.0411	.0700	.0817
.250			.0739				
.274							
.362	.1367						
.390		.0860		.0506	.0483		.0741
.420			.0516				
.422				.2104	.0651		
.497	.0700		.2178				
.550						.0152	.0423
.565							
.600							
.650							
.700	.4030			.3073	.0569		
.725							
.750			.3509				
.760							
.775			.2274	.4096	.0883		
.808							
.834	-.0139			.2318	.1825	-.0590	
.850			.0820				
.857							
.865	-.0787			.1047			-.0862
.900	-.0773						
.935		-.0238		.1241			
.950				.0004		.0000	
.953			-.0694				
.965	-.1013						



RB3L12)

TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 01+712+312N25+AT11 LOWER WING

DATE 27 JAN 75

ALPHA(3) = -.800 BETA(2) = -4.030

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	.2990	.9640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.0103	.0836	.3932	.7943	.7908	.7263	.7943
.020			.1910	.1111	.0766	.0555	.1128
.040		.1132					
.060			.1098				
.080	-.0371			.0278	.0491	.0308	.0226
.100			.0572	-.0011			
.120		.0822					
.140	-.0466			-.0173	.0132	.0169	.0162
.160		.0994					
.180			.0141				
.200	.0601						
.220		.0431		-.0058	-.0153	.0075	.0113
.240			.0181				
.260							
.280	.0491						
.300		.0254					
.320				.0082	-.0037		.0072
.340			.0007				
.360	.0059			.1243	-.0074		
.380			.1709				
.400						-.0343	-.0199
.420					.0024		
.440	.2997			.1431			
.460			.1347			-.0565	-.0692
.480			.1636	.2967	.0481		
.500							
.520	-.0857			.1708	.1129	-.1108	
.540		.0523					
.560	-.1818						-.1883
.580	-.1598			.0638			
.600		-.0431		.0718			
.620			-.0295			.0000	
.640			-.1059				
.660	-.1392						

(1583112)

ARC97-716 1A14 Q1+T12+S12N25+AT11 LOWER WING

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

	Y/5W				
1	.2990	.3640	.4270	.5340	.6750
2					.7600
3					.8870

MD/K

0.000	-.0285	-.0019	.2726	.6370	.6050	.5908	-.6280
0.020				.0393	.0112	-.0135	.0304
0.030			.1012				
0.040		.0168					
0.060			.0503				
0.080	-.0597			-.0265	-.0156	-.0411	-.0415
0.090				-.0422			
0.095			.0293				
0.098		.0444					
0.099	.0396			-.0366	-.0467	-.0513	-.0471
0.100		.0646					
0.150			-.0103				
0.229	.0056						
0.246		.0163					
0.260							
0.274			-.0233	-.0321	-.0362	-.0530	-.0515
0.362	.0347						
0.393		-.0195		-.0361	-.0405		-.0532
0.400			.0254				
0.422							
0.497	-.0066		.1141	.0624	-.0320		
0.550							-.0715
0.663							
0.670					-.0010	-.0670	
0.690	.2014			.0672			
0.725							-.1056
0.750							
0.760			-.0066	.1222	.0260		
0.773							
0.778			-.0499				
0.834	-.1123						
0.850				.0664	.0676	-.0721	
0.857			-.0369				
0.865	-.1454						-.1463
0.900	-.1679			-.0155	.0122		
0.905			-.0765	-.0904		.0030	
0.950							
0.953		-.1245					
0.965	-.1568						

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83L12)

ARC97-716 1A14 21+712+512N25+AT11 LOWER WING

ALPHA(3) = -.210 BETA(4) = 3.680

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	/800	.8870
X/CW							
.000	-.0808	-.0664	.1398	.5048	.4710	.4417	.5043
.020				.0150	-.0345	-.0624	-.0221
.030			.0940				
.040		-.0331					
.049			.0472				
.050	-.0740			-.0324	-.0341	-.0637	-.0653
.060				-.0485			
.063			.0060				
.066		-.0034					
.094	-.0290						
.130				-.0324	-.0690	-.0800	-.0680
.163		.0366					
.177			-.0162				
.229	-.0051						
.246		.0047					
.250				-.0017	-.0605	-.0742	-.0632
.274			.0345				
.362	-.0266						
.390		.0356					
.400				.0816	.0452		-.0703
.422			.0811				
.497	.0226						
.550			.0762	.0831	.0969		
.563							
.600						-.0321	
.650					.0763		
.700	.0766				.0361		
.725				.0203			
.750					.0403		.0032
.760			-.0592	-.0161	.0356		
.775							
.809			-.0919				
.834	-.1291						
.850				-.0861	.0224	-.0190	
.877			-.1153				
.893	-.1375						
.900	-.1741			-.1293			-.0457
.905			-.1648		-.0756		
.920				-.1635		.0000	
.953			-.1982				
.969	-.2014						

(REB3112)

ARC97-716 IAI4 Q1-T12-S12N23-AT11 LOWER WING

ALPHA(3) = -.220 BETA(3) = 7.800

SECTION (3) LOWER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3640	.4270	.5340	.6730	.7600	.8870
Y/CU							
.000	-.0939	-.1460	.0073	.3095	.3606	.3110	.5487
.020				.0538	-.0317	-.0482	.0418
.030			.0435				
.040		-.1352					
.048			.0348				
.050	-.0664			.0178	-.0420	-.0507	-.0143
.080				.0019			
.085			.0298				
.086		-.0860					
.094	-.0608						
.120				-.0147	-.0386	-.0399	.0128
.163		-.0148					
.177			-.0037				
.229	-.0874						
.246		-.0039		.0222	.0228	.0308	.0177
.290			.0286				
.274							
.362	-.0298						
.390		.0144					
.400				.0472	.0702		.0516
.402		.0618					
.497	-.0293			.0538	.0667		
.590			.0249				
.569							
.600						.1018	
.650					.1169		
.700	-.0171			-.0482	.0488		
.725						.0643	.0577
.730			-.0660				
.760				-.0861	.0125		
.775			-.1110				
.808							
.834	-.1404			-.1301	-.0722	-.0389	
.830			-.1687				
.837							
.865	-.1619						
.900	-.1751			-.1570			-.0225
.905			-.2073		-.1218		
.950				-.1832		.0000	
.953			-.2227				
.985	-.8084						



ARC97-716 1A14 O1+Y12+S12N25+AT11 LOWER WING

(217693)

ALPHA(4) = 3.950 BETA(1) = -0.020

SECTION : 11 LOWER WING

DEPENDENT VARIABLE CP

	Y/84				
1	.2990	.3645	.4270	.5340	.6750
2					.7690
3					.8570

NO/K

FD/x

.020	.0874	.1216	.4774	.9803	.9561	.9917	.9404
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1505.	0427.	6667.	6327.		
				0300.	0300.

.040 **.1325**

2017.249

[illegible]

.095 **.1593**

.586 **.1414**

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454
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.165	.1792
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.177 **.1073**

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.250	.1066	.1309	.1714	.1894
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EC	.403	.1100	.1266	.1762
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Year	1992	1993	1994
1992	1.02	1.02	1.02
1993	1.02	1.02	1.02
1994	1.02	1.02	1.02

055	.2937	.1400
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.565 **.2971**

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	.779	.4568	.2986
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Year	1957	1958	1959
1957	100	100	100
1958	100	100	100
1959	100	100	100

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[illegible]

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1210-136

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0031123

ARC87-716 1A14 01+712+512N25+AT11 LOWER WING

ALPHA(1 4) = 3.930 BETA(1 2) = -4.040

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP				
Y/BW		.8990	.3640	.4270	.5340	.6730
X/CW						
.000		-.0072	.0704	.4069	.8420	.8147
.020					.1636	.1908
.030				.1927		
.040			.0327			
.048				.1599		
.050		.0204			.0799	.1536
.080					.0613	
.085			.0997			
.086		.0035				
.094					.0405	.0971
.120			.1316			.1193
.163				.0635		
.177						.1407
.229		.0587				
.246			.0765			
.250					.0567	.0709
.274				.0674		.1066
.362		.0736				.1233
.390			.0471			
.400				.0326		
.402					.0564	.0734
.497		.0394				.1084
.530				.2547	.2174	.0663
.563						.0665
.600						
.650					.0474	
.700		.3683			.1334	
.723					.4043	
.730						.0220
.760			.3233			.0182
.773				.3640	.2830	
.809			.1889			
.834		-.0326				
.890				.1844	.2448	.0251
.937			.0543			
.965		-.0697				
.900		-.0694		.0716		-.0702
.903			-.0393		.1095	
.930				-.0211		.0000
.933			-.0992			
.965		-.1299				

ARC97-716 1A14 O1+T12+S12N25+AT11 L:FR JING

(21583)

ALPHAC(4) = 3.930
BETA(3) = (E) CVL3B
END..

SECTION (1) LOWER WING

DEPENDENT VARIABLE: CP

Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8670
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AD/K

.000	-.0506	-.0019	.2986	.7185	.6929	.6489	.7053
.020				.1260	.1152	.1140	.1682
.030			.1504				
.040		.0273					
.048			.0932				
.050	-.0636			.0512	.0826	.0934	.0929
.060				.0333			
.065			.0761				
.086		.0373					
.094	-.0853			.0174	.0421	.0605	.0822
.150							
.163		.1012					
.177			.0373				
.229	.0000						
.248		.0341					
.290				.0264	.0303	.0546	.0697
.274			.0283				
.362	.0541						
.390		.0276					
.400			.1086	.0297	.0489		.0360
.402							
.497	.0344			.1771	.0737		
.550			.1826				.0298
.563							
.600					.1000	.0324	
.650	.2574			.2155			
.700							
.725			.0952				
.750				.3062	.2393		
.760							
.775			.0876				
.809							
.834	-.0931						
.850				.1379	.2249	.0863	
.917			.0011				
.919	.1253						
.950	-.1440			.0309			
.975			-.0770		.0720		.0000
.990				-.0555			
.993			-.1266				
.995	-.1467						

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 230

0831121

ARC97-7 6 1A14 01-T12-S12N25+AT11 LOWER WING

ALPHA(4) = 3.940 BETA(4) = 3.860

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/SM	.2900	.3600	.4270	.5340	.6730	.7600	.8870
X/CJ							
.000	-.1105	-.0834	.1707	.3418	.5849	.5576	.6103
.020			.1566	.1243	.1168	.1146	.1415
.030		-.0136					
.040			.1044				
.048				.0597	.0813	.0924	.0807
.050	-.1097			.0482			
.060			.0769				
.085							
.086		.0190					
.094	-.0914			.0338	.0722	.0692	.0765
.130		.0776					
.163			.0716				
.177							
.229	.0303						
.246		.0641		.0873	.0898	.0961	.0807
.290			.0981				
.274							
.362	.0332						
.390		.0999					
.400			.1595	.1764	.1803		.1104
.402							
.497	.0668			.1483	.1743		
.530			.1464				
.563						.1303	.1398
.600							
.630							
.700	.1223			.0685	.0776		
.723						.0683	.0734
.750					.1102		
.760			-.0228	.0188			
.773			-.0544				
.808							
.834	-.1104			-.0565	.0661	.0202	
.850			-.1080				
.857							
.863	-.1299						
.920	-.1511			-.1094			-.0296
.933			-.1361	-.0487			
.950				-.1249			.0000
.953			-.1699				
.965	-.1878						

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 01+112+512N23+AT11 LOWER WING

ALPHA(4) = 3.940 BETA(5) = 7.621

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2993	.3643	.4270	.5340	.6730	.7800	.8870
.000	-.1324	-.1701	-.0068	.2861	.4436	.5955	.6418	
.020			.0938	-.1090	.1287	.2747	.2829	
.040		-.1228						
.068			.0848					
.093	-.0811			.0736	.0815	.2078	.2061	
.096			.0653	.0839				
.085								
.086		-.0551						
.094	-.0553			.0949	.1094	.1958	.1861	
.190		.0423						
.177			.0797					
.229	-.0767							
.246		.0293		.1088	.1182	.2124	.1847	
.290			.0916					
.274								
.362	.0163	.0793						
.390				.1237	.2351		.1993	
.400			.1135					
.402								
.497	.0405			.1196	.1295			
.590			.1028					.1438
.600								
.650					.0795			
.700	.0407			-.0040	.0247			
.723						.0224	.0458	
.730			-.0351					
.760				-.0448	-.0130			
.779			-.0818					
.809								
.834	-.1118			-.1015	-.0782	-.0576		
.950			-.1390					
.977								
.865	-.1343			-.1379				-.0877
.905	-.1545		-.1784	-.1128				
.905			-.1706					.0000
.930								
.955		-.2012						
.965	-.1842							

*83L12)

ARC97-716 1A14 Q1-T12-S12N23-AT11 LOWER WING

ALPHA(5) = 8.050 BETA(1) = -8.070

SECTION 1 LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW	.000	.0823	.0891	.9357	1.0380	1.0070	.9204
	.020			.4351	.5335	.5161	.5375
	.030		.3641				
	.040		.1698				
	.048		.2727				
	.050	.1301		.2930	.3676	.4140	.4290
	.060			.2461			
	.065		.2072				
	.066		.1759				
	.094	.1047					
	.130			.1961	.3069	.3491	.3869
	.163		.2098				
	.177		.1472				
	.229	.0879					
	.246		.1305				
	.250			.1658	.2650	.3310	.3528
	.274		.1073				
	.362	.1169					
	.390		.0608				
	.400			.2728	.3699		.3993
	.402		.0610				
	.497	.0736					
	.550			.1624	.2641		
	.565		.3116				
	.600					.2855	.3550
	.650			.4600	.2663		
	.700	.5361				.2460	.2597
	.725						
	.750						
	.760		.3731				
	.775		.2177				
	.808						
	.834	.0974		.1372	.2253	.1508	
	.850		.0674				
	.857						
	.865	.0308					
	.900	-.0599		.0564			.1030
	.905		-.0279		.0730		
	.950			-.0180		.0000	
	.953		-.0699				
	.965	-.1272					



083L12)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCST-716 1A14 O1+T12+S12N2S+AT11 LOWER WING

ALPHA(5) = 9.068 BETA(2) = -4.080

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/DW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW	.000	.0037	.0476	.4136	.8666	.8696	.8108
.020					.3162	.4327	.4293
.030				.2937			
.040			.0966				
.048				.2030			
.050		.0790		.2106	.3003	.3318	.3446
.060				.1717			
.085			.1395				
.086			.1034				
.094	.0122			.1333	.2216	.2661	.3090
.130		.1451					
.163			.0880				
.177							
.229	.0714			.1216	.1919	.2461	.2755
.246		.0618					
.250			.0762				
.274							
.362	.0639						
.390		.0592		.1216	.2155		.2525
.400			.0743				
.402				.8416	.8912		
.497	.0476						
.570			.3224				.3215
.583							
.600						.2732	
.650	.4306				.2039		
.700				.4567		.2017	.2235
.723			.3331				
.730				.3052	.3400		
.760			.1940				
.775							
.808		.0358		.1343	.2066	.1064	
.834			.0476				
.850							
.857							
.865	-.0056			.0363	.0483		.0612
.900	-.0770		-.0470				
.903				-.0424		.0750	
.930			-.1063				
.953							
.965	-.1350						

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ARC97-716 1A14 01+T12+S12N23+AT11 LOWER WING

(983112)

$$\text{ALPHA}(5) = 0.080 \quad \text{BETA}(3) = -0.070$$

SECTION : 11 LOWER 17MG

DEPENDENT VARIABLE CP

Y/B/A	-2990	-3640	-4270	-5340	-6730	-7800	-8870
X/C/W							
.000	-.0359	-.0286	-.3221	.7337	.7281	.7035	.7350
.020			-.2332	.2370	.3263	.3448	.3657
.030		.0535					
.040			-.1648				
.048							
.050	.0143			.1563	.2259	.2376	.2776
.080			.1325	.1339			
.085		.0677					
.086							
.094	-.0206						
.15							
.16		.1429					
.177			.0803				
.229	.0079						
.246		.0602					
.250				.0953	.1608	.1983	.2234
.274			.0686				
.362	.0572						
.390		.1091					
.400			.2876	.2724	.2014		.2306
.497	.0893						
.530				.2177	.2470		
.565			.2660				
.600							
.630							
.700	.3087					.2256	.2533
.725				.2656			
.750			.1597			.1900	.2010
.760							
.775			.0890	.2006	.3967		
.808							
.834	-.0834						
.850							
.857							
.865	-.1076		-.0161	.1004	.1975	.2000	
.905	-.1422			.0119	.0345		.0815
.930			-.0895				
.933				-.0616		.0000	
.953			-.1363				
	-.1643						

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 255

ARC97-715 1A14 O1+T12+S12N25+AT11 LOWER WING

(R33L12)

ALPHA(O) = 8.090 BETA(O) = 3.940

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	.2990	.3040	.4270	.5340	.6730	.7600	.8870
X/C							
.300	-.1346	-.1143	.2096	.6316	.6794	.6379	.6394
.320				.2954	.3580	.3582	.3684
.330			.2426				
.340		-.0032					
.348			.1849				
.350	-.0946			.2046	.2590	.2916	.3045
.360				.1939			
.365			.1546				
.366		.0499					
.394	.0003						
.150				.1609	.2409	.2592	.2829
.163		.1393					
.177			.1233				
.229	.0217						
.246		.1212					
.250			.1745	.1709	.1961	.2433	.2603
.274							
.362	.0959						
.390		.1643					
.400			.1965	.1905	.2047		.2333
.402							
.497	.1259						
.530				.1946	.1932		
.565			.1723				
.600							.1615
.650					.1667		
.700	.1321			.1036	.1348		
.725						.1358	.1129
.750			-.0148				
.760				.0348	.1299		
.775			-.0660				
.809							
.834	-.0970			-.0428	.0885	.0353	
.850			-.1184				
.857							
.865	-.1177						
.900	-.1469			-.0931	-.0198		.0074
.905			-.1458				
.930				-.1406		.0000	
.955			-.1693				
.965	-.1873						

(R83L12)

ARC97-716 1A14 Q1+T12+312N3+AT11 LOWER WING

ALPHA(O) = 8.110 BETA(O) = 7.940

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/BW	.2950	.3940	.4270	.5340	.6750	.7600	.8670
1/CU							
.0000	-.1536	-.1768	-.0316	.2773	.5206	.7072	.7038
.0200			.1831	.2559	.4187	.4277	
.0300		.1201					
.0400		-.0612					
.0480			.1083				
.0500	-.0356			.1460	.1842	.3156	.3373
.0600			.1355				
.0800		.1051					
.0806		.0097					
.0940	-.0352						
.1200			.1323	.2325	.2567	.2937	
.1600		.0911					
.1770		.1141					
.2200	-.0517						
.2460		.0755		.1411	.2283	.2550	.2644
.2500			.1267				
.2740							
.3020	.0570	.1167					
.3900				.1511	.1657		.2428
.4000		.1436					
.4970	.0981		.1170	.1347			
.5300		.1209					
.5650							.1689
.6000				.1253			
.6200				.0367			
.7000	.0750		.0004			.0687	.0929
.7250							
.7500		-.0356		.0036			
.7600			-.0431				
.7750		-.0709					
.8000							
.8340	-.1104		-.0959	-.0807	-.0238		
.8500		-.1287					
.8650	-.1360						-.0222
.9000	-.1574		-.1297				
.9050		-.1676	-.1074				
.9500			-.1617			.0000	
.9550		-.1908					
.9650	-.1911						



$$\text{ALPHA}(1) = -7.950 \quad \text{BETA}(1) = -8.030$$
[illegible]

4/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870
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0.0009	-.3161	0.0009
0.950	-.3474	0.950
0.953		0.953
0.983	-.3410	0.983

$$\text{ALPHA}(1) = -7.930 \quad \text{BETA}(2) = -3.710$$

DEPENDENT VARIABLE CP

	.7600	.8870
	.6739	
	.5349	
	.4270	
	.1643	
	.2000	

X/CW
.000 .0348 .2779 .6023 .5263 .4546 .4985
mean -.2967 -.3493 -.3669 -.3408

.000					
.067	- .0086				
.046		- .0625			
.093			- .3419	- .3651	- .4163 - .4194
.087		.0311		- .3086	

.086	-.0096
.094	-.0303
.190	-.3017
.183	-.3832
	-.4072
	.0163

.229	-.0027	
.248	-.0443	
.290		-.1607
.294		-.3356
		-.3602
		-.3636
		-.1143

.90	- .659
.400	
.72	
.497	
	.0294
	- .0052
	- .1947
	- .3405

.565	-.0537	
.600		-.5179
.652		-.1597
.700	-.0463	-.1792

.790			- .2123	- .3538
.760	.1160			
.775		.067%	- .0630	
.600	- .0260			

0.34	-0.1130
0.57	-0.1212 -0.0749 -0.2473

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83L13)

LOWER WING

ARC97-716 1A14 OX-112-S12N25

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270
.3340	.6730	.7600
.6870		
.857	-.1630	
.893		
.900	-.1623	
.908	-.2648	
.915		
.920	-.3005	-.2317
.933		-.2256
.953	-.3725	-.3233
.965	-.3667	.0000

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270
.3340	.6730	.7600
.6870		
.857	-.1630	
.893		
.900	-.1623	
.908	-.2648	
.915		
.920	-.3005	-.2317
.933		-.2256
.953	-.3725	-.3233
.965	-.3667	.0000

ARCS9-71.6 1A14 Q2+712+312M25

(883113)

LOWER WING

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CW

.775			-.0255	-.0314		
.808		-.1398				
.834	-.2102					
.850			-.1955	-.1402	-.1982	
.857		-.2556				
.865	-.2448					
.900	-.3016		-.2836			-.3619
.905		-.3484	-.2682			
.920			-.3716	.0000		
.935		-.4076				
.965	-.3917					

ALPHA(1) = -7.980 BETA(4) = 4.220

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CW

.000	-.0633	-.0362	.1214	.3447	.2636	.2770	.2959
.020				-.3809	-.4129	-.4298	-.4142
.030		-.1090					
.048		-.0861					
.049		-.1124					
.050	-.1063			-.3643	-.4213	-.4627	-.4822
.060				-.3653			
.085		-.1314					
.086	-.0369						
.094	-.0753						
.150				-.2219	-.3693	-.4500	-.4430
.163		-.0114					
.177			-.1277				
.229	-.1050						
.246		-.0638					
.250				-.1936	-.2971	-.4409	-.4386
.274			-.1321				
.392	-.0728						
.590		-.0990					
.630							
.632			-.1140				
.697	-.0963			-.1367	-.1942		-.4028
.790							
.965			-.1144	-.1070			
.900		-.1230					-.2975
.690							-.1296

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

REBUL131

LOWER WING

ARC97-716 1A14 Q1+T12+S12N25

ALPHA(1) = -7.980 BETA(4) = 4.220

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/B	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.700	-.0980			-.0030		-.0636	
.725					-.0110	-.2856	
.750			-.0763				
.760				-.1077	-.0156		
.775			-.2169				
.806							
.834	-.2233			-.2462	-.1700	-.1138	
.850							
.857			-.2923				
.865	-.2236			-.3267		-.2680	
.900	-.2019		-.3517	-.2937			
.905				-.3924	.0000		
.950			-.3527				
.953							
.965	-.3155						

ALPHA(1) = -7.980 BETA(5) = 8.150

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/B	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.700	-.0600	-.0446	-.1496	.3108	.1964	.1631	.2164
.720				-.3584	-.4336	-.4477	-.4345
.730			-.0486				
.740		-.0156					
.749			-.0496				
.750	-.0613			-.3490	-.4457	-.4965	-.4573
.760					-.3131		
.785			-.0599				
.786		-.0075					
.794	-.1367						
.190				-.2086	-.4313	-.4685	-.4570
.193		.0263					
.177			-.1197				
.229	-.0698						
.245		-.0491		-.1449	-.3132	-.4221	-.4372
.290							
.274			-.0886				
.362	.0091						
.390		-.0752					
.400			-.1576	-.1104			-.3714
.402							
.447	-.0746		-.1123				

(53113)

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 01+T12+S12NE5

LOWER WING

ALPHA(1) = -7.880 BETA(5) = 8.150

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.530				-.0765	-.0983		
.565			-.1003			-.3379	
.600						-.1491	
.653					-.0879		
.700	-.1047			-.1422			
.725						-.1373	-.3412
.750							
.760			-.1924		-.1689		
.775			-.3019				
.808							
.834	-.2722			-.3349	-.2708	-.2124	
.850							
.857			-.3606				
.865	-.2939						-.2553
.900	-.2999			-.3922	-.3517		
.905			-.4013				
.950				-.2917		.0000	
.953			-.2655				
.965	-.3279						

ALPHA(2) = -4.020 BETA(1) = -7.970

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.1724	.0620	.4383	.7463	.7053	.6301	.6870
.020				-.1670	-.2084	-.2320	-.1914
.030			.1335				
.040		.0604					
.048			.0545				
.050	.1321			-.1913	-.2234	-.2720	-.2732
.080				-.1576			
.085			-.0015				
.086		.0711					
.094	-.0113						
.150				-.1127	-.1032	-.2367	-.2590
.163		.1209					
.177			-.0387				
.229	.0379						
.246		.0276					
.257				-.0621	-.1590	-.1931	-.2286
.274			-.0377				
.562	.1209						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(333-13)

LOWER WING

ARC97-716 1A14 01+112+512N25

ALPHA(2) = -4.020 BETA(1) = -7.970

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	0.290	.3640	.4270	.5340	.6750	.7800	.8870
.390	.0286				.0899	.0686		-.1811
.400				.1035				
.402								
.497	.0484							
.530				.0219	-.0112	.0096		
.563								
.600								
.650								
.700	.0247					.0570	-.0337	-.1874
.723					.2221			
.750							-.1289	-.1554
.760				.1796		.0960	.1725	
.773				.0146				
.808								
.834	-.0400				-.1120	-.0047	.0278	
.850				-.1573				
.857								
.883	-.1336				-.2263			-.1947
.903	-.2323			-.2696	-.1781			
.905					-.3214		.0000	
.921				-.3460				
.933								
.963	-.3429							

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2990	.3640	.4270	.5340	.6750	.7800	.8870
.000	.0642	.0193			.6119	.5747	.5090	.5576
.020					-.2278	-.2837	-.3031	-.2672
.030				.0332				
.040			.0191					
.048				-.0301				
.050	.0106				-.2771	-.3063	-.3430	-.3432
.050					-.2391			
.063				-.0881				
.086			.0045					
.094	-.0886							
.130					-.1885	-.2571	-.3124	-.3293
.183			.0334					
.177				-.1123				
.239	.0139							

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0831131

LOWER WING

ALPHA(2) = -4.020 BETA(2) = -3.070

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/BW .2990 .3640 .4270 .5340 .6730 .7600 .8070

X/CW						
.248	-.0376					
.250		-.1306	-.2565	-.2749	-.3062	
.274		-.1023				
.362	.0076					
.390		-.0534				-.2649
.402			.0043	-.1448		
.497	-.0521		.0467			
.550			-.0946	-.0454		
.565		-.0881				
.600					-.2434	
.650				-.0504		
.700	-.0775		-.1292			
.725		.1941				
.730				-.1382	-.2320	
.760		-.1554				
.775		.0979	.1280			
.808		.0022				
.834	-.0871		-.1076	-.0315	-.0231	
.850		-.1716				
.857						
.865	-.1648					
.900	-.2567		-.2208		-.2526	
.905		-.2885	-.1964			
.950		-.3137			.0000	
.953		-.3636				
.965	-.3557					

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

V/BW .2990 .3640 .4270 .5340 .6730 .7600 .8070

X/CW						
.000	-.0407	-.0502	.2291	.4929	.4691	.4640
.020				-.3131	-.3314	-.3041
.050		-.0443				
.060		-.0434				
.074			-.0698			
.090	-.0400		-.3319	-.3601	-.3879	-.3741
.063			-.3079			
.085		-.0817				
.088						
.094	-.0496					



157-564

TABLED PRESSURE DATA - 1A14B - VL. 2

LOWER WING

15C97-716 1A14 Q1-712-5:2N25

ALPHA (2) = -4.0300
BETA (3) = .300

DEPENDENT VARIABLE OF

1944	2990	3600	4270	5340	6750	7800	8870
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	K/CW
	--2689 --3114 -.3302 -.3535

1.90
.0003
1.63

177
-1148

.229	- .0658
.246	- .0798
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250 2160 2931 3625 4000

-.274
.362
-.0631

.390	-.0892	-.0390	-.0860	-.2743
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-.0027
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600 --.1059

.033	-.0373	-.0468
.703	-.0373	-.0468

.725	.1140	-.1760	-.2116
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--2285
--1982 --J650 --J650

-2173

970	-2863	-3036	-2344
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	9065°--	8000°.
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57.5°		

1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965

100

MAC(2) = -4.030 BETA(4) = 4.100

SECTION (1) LOWER WING

	.6750	.5340	.4270	.3640	.2890
--	-------	-------	-------	-------	-------

	mm	mm	mm/CW
.44986	- .0744	.1727	.3747
.4001		.4693	

	- .2846	- .3169	- .3422	- .3674
.020				

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--0739
056
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Page 5

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RBSL13)

LOWER MING

ARCS7-716 1A14 O1+T12+SI2N23

ALPHAO(2) = -4.030 BETAO(4) = 4.120

SECTION (1) LOWER MING DEPENDENT VARIABLE CP

Y/8W .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CU

.090						
.085						
.086						
.094						
.130						
.163						
.177						
.229						
.246						
.250						
.274						
.362						
.390						
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.834						
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.865						
.905						
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.950						
.953						
.965						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 O1+Y12+S12N25 LOWER WING (R83L13)

ALPHA(2) = -4.020 BETA(5) = 7.999

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
.000	.000	-.1194	-.0454	.1244	.4127	.2905	.2983	.3099
.020	.020				-.2353	-.3686	-.3600	-.3564
.030	.030		.0714					
.040	.040		-.0328					
.048	.048			.0261				
.050	.050	-.0775			-.1819	-.3549	-.3910	-.4103
.080	.080				-.1633			
.085	.085			-.0293				
.086	.086		.0075					
.094	.094	-.1475						
.150	.150		.0718		-.1075	-.2771	-.3550	-.3617
.163	.163							
.177	.177			-.0702				
.229	.229	-.0699						
.246	.246		-.0256		-.0860	-.1291	-.1683	-.3607
.290	.290				-.0405			
.274	.274							
.362	.362	.0207						
.390	.390		-.0358					
.400	.400				-.1083	-.1144		-.2212
.402	.402			-.0759				
.497	.497	-.0461			-.0124	-.0122		
.550	.550							
.565	.565							
.600	.600							
.650	.650							
.700	.700	-.0791			-.0629		-.0210	-.1641
.725	.725				-.1385			
.750	.750						-.0513	-.0395
.760	.760		-.2006					
.775	.775		-.2967		-.2167	-.1411		
.809	.809							
.834	.834	-.2602						
.850	.850				-.3212	-.2550	-.1813	
.857	.857		-.3568					
.885	.885	-.2949						
.900	.900	-.3363			-.3802			-.1522
.905	.905				-.4043	-.3363		
.920	.920				-.3540		.0000	
.953	.953			-.2894				
.965	.965	-.3316						

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

REB51131

LOWER WING

ARC97-716 1A14 Q1+712+512M25

ALPHA(3) = -.180 BETA(1) = -.000

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.8990	.9640	.4270	.5340	.8750	.7800	.8870
.000	.1534	.0731	.4891	.7886	.7775	.7076	.7613	
.020			.2170	.0010	-.0691	-.0950	-.0393	
.030			.1384	.1279	.0253	-.0468	-.0979	-.1256
.040				.1027	.0044			
.048	.1319							
.050								
.060								
.083								
.086	.0767							
.094								
.130								
.163								
.177								
.229	.1139							
.246								
.250								
.274								
.362	.1454							
.390								
.400								
.422								
.497	.0764							
.530								
.565								
.600								
.650								
.700	.1313							
.723								
.750								
.760								
.775								
.808								
.854	-.0197							
.900								
.937								
.965	-.1061							
.990	-.2127							
.995								
.990								
.955								
.985								



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83L13)

LOWER WING

ARCS7-716 1A14 C1+T12+S12N25

ALPHA(3) = -.170 BETA(2) = -3.990

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP	CP	CP	CP
.000	.000	.000	.000	.000	.000
.020	.000	.000	.000	.000	.000
.030	.000	.000	.000	.000	.000
.040	.000	.000	.000	.000	.000
.048	.000	.000	.000	.000	.000
.050	.000	.000	.000	.000	.000
.080	.000	.000	.000	.000	.000
.083	.000	.000	.000	.000	.000
.086	.000	.000	.000	.000	.000
.094	.000	.000	.000	.000	.000
.150	.000	.000	.000	.000	.000
.163	.000	.000	.000	.000	.000
.177	.000	.000	.000	.000	.000
.229	.000	.000	.000	.000	.000
.246	.000	.000	.000	.000	.000
.250	.000	.000	.000	.000	.000
.274	.000	.000	.000	.000	.000
.382	.000	.000	.000	.000	.000
.390	.000	.000	.000	.000	.000
.400	.000	.000	.000	.000	.000
.402	.000	.000	.000	.000	.000
.497	.000	.000	.000	.000	.000
.590	.000	.000	.000	.000	.000
.565	.000	.000	.000	.000	.000
.600	.000	.000	.000	.000	.000
.650	.000	.000	.000	.000	.000
.700	.000	.000	.000	.000	.000
.723	.000	.000	.000	.000	.000
.750	.000	.000	.000	.000	.000
.780	.000	.000	.000	.000	.000
.775	.000	.000	.000	.000	.000
.808	.000	.000	.000	.000	.000
.834	.000	.000	.000	.000	.000
.850	.000	.000	.000	.000	.000
.857	.000	.000	.000	.000	.000
.885	.000	.000	.000	.000	.000
.900	.000	.000	.000	.000	.000
.905	.000	.000	.000	.000	.000
.920	.000	.000	.000	.000	.000
.953	.000	.000	.000	.000	.000
.965	.000	.000	.000	.000	.000

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083113)

LOWER WING

ARC97-716 1A14 Q1+T12+S12NES

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.8990	.3640	.4270	.5340	.6730	.7800	.8670
4/CW							
.000	-.0183	-.0646	.2951	.6171	.5898	.5309	.5046
.020				-.1110	-.1761	-.1963	-.1453
.030			.0934				
.040		-.0361					
.048			.0671				
.070	-.0163			-.1076	-.1714	-.2120	-.2231
.083				-.1036			
.085			.0157				
.086		.0234					
.094	-.0314			-.0879	-.1313	-.1623	-.1883
.130							
.163		.0597					
.177			-.0324				
.229	-.0486						
.246		.0188					
.290				-.0618	-.0833	-.1153	-.1396
.274			-.0363				
.362	-.0368						
.390		-.0108					
.400			.0516	.0378	.0984		-.1072
.402							
.437	-.0169			.0642	-.0035		
.530			.0740				
.563							
.600							
.650					-.0536		.0147
.700	.0915			.2513			
.725				.2046			
.750						.1816	-.0647
.760			.0934				
.775				.0595	.1241		
.809		-.0488					
.834	-.1071						
.870				-.1300	-.0485	.0255	
.857		-.1970					
.863	-.1770						
.900	-.2498			-.2370			-.0098
.903			-.2962		-.2107		
.930				-.3234		.0000	
.933			-.3653				
.995	-.3496						



CITE 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R53133)

LOWER WING

ARC97-716 1A14 01-712-512N25

ALPHA(3) = -.800 BETA(4) = 4.120

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW	.000	-.1018	-.1354	.2580	.5273	.5981	.5192
	.020			-.0237	-.1518	-.1964	-.1487
	.030		.1470				
	.040	-.0773					
	.048		.0942				
	.056	-.0711		-.0495	-.0973	-.1891	-.1853
	.060			-.0515			
	.063		.0668				
	.066	-.0316					
	.094	-.1124		-.0552	-.0421	-.0886	-.1335
	.150		.0674				
	.163						
	.177		-.0127				
	.229	-.1230					
	.246		.0438				
	.250			.0376	.0559	.0713	-.0603
	.274		.0206				
	.362	.0266					
	.390		.0434				
	.470			.1912	.1107		.0532
	.402		.0820				
	.497	-.0107		.0805	.0878		
	.530						
	.565						
	.600		.0767				.0123
	.650				.2166		
	.700	.0876		.0828	.1865		
	.725					.1232	.1367
	.750						
	.760		-.0580	-.0435	.0509		
	.775		-.1709				
	.808						
	.834	-.1927		-.1984	-.1099	-.0494	
	.850		-.2679				
	.857						
	.885	-.2383					-.0669
	.910	-.3001		-.2830	-.2529		
	.915		-.3339				
	.921		-.3579			.0000	
	.933		-.3970				
	.963	-.3222					

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0831131

LOWER WING

ARC97-716 1A14 Q1+T12+S12M25

ALPHA(3) = -.210 BETA(3) = 0.090

DEPENDENT VARIABLE CP

SECTION (3) LOWER WING

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.2110	-.0751	.1345	.4244	.3994	.3931	.4054
.020				-.0359	-.2264	-.2567	-.2216
.030			.1428				
.040		-.0501					
.046			.0826				
.050	-.1072			-.0571	-.1665	-.2157	-.2536
.060				-.0306			
.065			.0261				
.066		.0076					
.094	-.1494						
.130				-.0137	-.0571	-.1337	-.2060
.163		.0982					
.177			.0211				
.229	-.0517						
.246		-.0092		-.0249	-.0411	-.0423	-.1069
.250							
.274			.0043				
.362	.0180						
.390		-.0082					
.400				.0212	.0264		-.0622
.402			-.0122				
.497	-.0101						
.550				.0793	.1090		
.565			.0498				
.600						.0694	.0802
.630				-.0361			
.700	.0024			-.1149		-.0367	.0012
.725							
.750			-.1596				
.760				-.1869	-.1166		
.775			-.2648				
.808							
.834	-.2224			-.2928	-.2294	-.1773	
.850			-.3334				
.857							
.865	-.2742			-.3542			-.1707
.900	-.3393						
.905			-.3681	-.3254			
.930				-.3977		.0000	
.953			-.3103				
.965	-.3396						



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083113)

LOWER WING

ARC97-718 1A14 01+712+512N25

ALPHA(4) = 3.930 BETA(1) = -6.070

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

Y/BW .2990 .3640 .4270 .5340 .6730 .7600 .8870

X/CW

.000	.1106	.0704	.5033	.8572	.8459	.7951	.8324
.020			.3517	.2685	.2592	.2218	.2472
.030		.1614					
.040			.3102				
.046				.1541	.1496	.1635	.2126
.050	.1193			.1309			
.065			.2227				
.066		.1929					
.094	.1190			.1564	.2180	.2566	.2475
.130		.2569					
.163			.1762				
.177							
.229	.1356						
.246		.1747		.2805	.3045	.2668	.2425
.250			.1681				
.274							
.362	.1774						
.390		.2634		.1919	.2000		.2176
.400			.2346				
.402							
.497	.1333			.5395	.5173		
.550			.4970				
.565							
.600						.4034	
.650					.2915		
.700	.3739			.2612		.2005	.2531
.725							
.750			.1769				
.760				.0891	.1625		
.775			.0297				
.808							
.834	-.0088			-.0737	-.0096	.0176	
.850			-.1395				
.857							
.865	-.0884						
.900	-.2063			-.1795			-.0006
.905			-.2395		-.1796		
.930				-.2601			.0000
.933			-.3207				
.965	-.3027						

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0831131

LOWER WING

ARC97-716 1A14 O1-T12+S12N25

ALPHA(4) = 3.810 BETA(2) = -4.080

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	.0543	-.0140	.4117	.7596	.7476	.7001	.7309
.020			.2503	.1961	.1806	.1388	.1562
.030		.1096					
.040			.1783				
.046				.0848	.0634	.0741	.0720
.050	.0922			.0582			
.080			.1578				
.085		.0767					
.086							
.094	-.0176			.0765	.0794	.0575	.1269
.130		.1451					
.163			.1182				
.177							
.229	.0908	.0561		.0991	.1377	.1538	.1891
.246			.1198				
.250							
.274	.1117	.1235		.1745	.1929		.1851
.382			.8120				
.390				.1848	.1280		
.400			.1720				
.402						.3706	.0889
.497	.0747			.2961			
.530						.2049	.2275
.569			.1591	.0838	.1575		
.600			.0098				
.650				-.0870	-.0161	.0221	
.700	.2152		-.1588				
.725				-.1935			-.0110
.730				-.2506	-.1867		
.760				-.2821		.0000	
.775							
.808							
.834	-.0490						
.850							
.837							
.865	-.1277						
.900	-.2296						
.905							
.950							
.955							
.965	-.3182						



(R53113)

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

LOWER WING

ARC97-716 1A14 O1+T12+S12N25

ALPHA(4) = 3.910 BETA(3) = -.190

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	X/CU	.8990	.5640	.4270	.5340	.6730	.7800	.8870
.000	-.0166	-.0933	.3273	.6764	.6523	.6136	.5439	
.020			.2635	.1603	.1403	.1036	.0998	
.030		.0034						
.040			.1741					
.050	.0014			.0607	.0601	.0506	.0519	
.060			.1237	.0495				
.080								
.085		.0515						
.094	-.0293			.0508	.0731	.1036	.1283	
.150		.1492						
.163			.0646					
.177								
.229	-.0151	.0603		.0589	.1337	.1602	.1494	
.248								
.250			.0803					
.274								
.362	.0562	.1257						
.390				.1109	.1347		.1355	
.400			.1322					
.402								
.497	.0708			.1693	.1224			
.550			.1491				.0667	
.600						.3374		
.650					.2652			
.700	.1342			.2112		.1766	.2004	
.725								
.790			.1032	.0495	.1254			
.760								
.775			-.0370					
.809								
.834	-.1036			-.1169	-.0437	-.0047		
.850			-.1903					
.857								
.869	-.1746			-.2226			-.0424	
.900	-.2519							
.905			-.2820	-.2096			.0000	
.905				-.2095				
.931								
.953			-.3595					
.965								
.983	-.3404							

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LOWER WING

ANCSP-716 1A14 Q1+T12+SIENES

ALPHA(14) = 3.000 BETA(14) = 4.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	X/CW	.2990	.3040	.4270	.5340	.6750	.7800	.8870
.000	-.1116	-.2641	.2271	.5599	.0648	.6235	.6348	
.020			.2706	.2012	.2170	.2093	.2031	
.030		-.0889						
.040			.1898					
.048								
.050	-.0811			.1262	.1536	.1900	.1780	
.060				.1275				
.083			.1352					
.086		.0085						
.094	-.0897							
.130				.1919	.2277	.2056	.1862	
.163		.1565						
.177			.1018					
.229	-.0363							
.246		.0823						
.250				.2503	.1825	.1730	.1641	
.274		.2035						
.362	.1001							
.390		.1433		.1461	.1536		.1417	
.400			.1616					
.402								
.497	.1011			.1822	.2293			
.530			.1599					
.565								
.600						.3261	.1661	
.630					.1631			
.700	.1097			.0801		.1195	.1563	
.725								
.730								
.760			-.0471	-.0486	.0343			
.775			-.1545					
.809				-.1966	-.1027	-.0368		
.834	-.1758			-.2585				
.850								
.857								
.863	-.2343							
.900	-.3048			-.2802			-.0789	
.903			-.3259	-.2504				
.950			-.3543			.0000		
.953			-.3908					
.963	-.3745							



(233.13)

DATE 27 JAN 75 TISSUATED PRESSURE DATA - 1A14B - VOL. 2

LOWER WING

ARC97-716 1A14 OL+T12+SI2N25

ALPHA(4) = 3.930 BETA(5) = 8.090

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	X/CW	.5940	.5840	.5870	.5940	.6730	.7800	.8870
.000	-.2384	-.1600	.0804	.3872	.4538	.4643	.4785	
.020			.1627	.1241	.0790	.0877	.0946	
.040		-.0981		.1225				
.060				.1225	.0821	.0564	.0614	.0275
.080	-.0687				.0734			
.100			.1084					
.120		.0103						
.140	-.0308				.0600	.1003	.0864	.0750
.160		.1259						
.180			.0875					
.200	-.0349							
.220		.0611			.0737	.1136	.1047	.0767
.240			.0760					
.260	.0714							
.280		.0814			.1128	.1225		.0777
.300			.0943					
.320					.0837	.1169		
.340	.0638			.0932				.1015
.360						.1083		
.380	.0717				-.0935	-.0144		
.400							-.0130	.0199
.420								
.440								
.460								
.480								
.500								
.520								
.540								
.560								
.580								
.600								
.620								
.640								
.660								
.680								
.700								
.720								
.740								
.760								
.780								
.800								
.820								
.840								
.860								
.880								
.900								
.920								
.940								
.960								
.980								
.995								

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(231133)

LOWER WING

ARC97-716 1A14 Q1+Y12+S12N25

ALPHA(5) = 0.020 BETA(2) = -4.120

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

V/B4	0.8990	.3640	.4270	.5340	.6750	.7600	.8870
X/CW							
.000	.0512	.0003	.4451	.8230	.8167	.7411	.7401
.020				.3373	.4928	.5234	.5463
.037		.1349	.3356				
.040			.2907				
.048				.2669	.3820	.4250	.4562
.050	.1084			.2819			
.080			.2123				
.083		.1168					
.086				.2925	.3048	.3473	.3952
.094	.1034						
.150		.2299					
.163			.2037				
.177	.1160						
.229		.1549					
.246				.2181	.2679	.3296	.3515
.250			.2732				
.274							
.362	.1296						
.350		.2990		.1839	.2633		.3346
.403			.1471				
.402				.3703	.3417		
.497	.2323		.3500				
.530							
.563							
.600						.2442	
.650					.2629		
.700	.2883			.1450	.1867		
.729						.1232	.1230
.753			.1053				
.760				.0011	.0818		
.775			.0273				
.808							
.834	-.0741			-.1351	-.0669	-.0358	
.850			-.1783				
.857							
.862	-.1312			-.2112	-.2059		-.0708
.900	-.2477		-.2603				
.903				-.2638		.0000	
.950							
.953			-.3341				
.963	-.3291						

(083113)

LOWER WING

ALPHA (3) = 0.020 BETA (3) = -.230

ARC97-718 1A14 OL+112+312M23

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.8990	.9040	.4270	.5340	.6730	.7800	.8970
X/CM							
.000	-.0371	-.1181	.3215	.7224	.7283	.6652	.6475
.020				.3636	.4450	.4830	.4937
.030			.3496				
.040		.0389					
.046			.2424				
.050	.0368			.2770	.3366	.3855	.4042
.080				.2520			
.085			.1928				
.086		.1313					
.094	.0063						
.130				.2294	.2762	.2987	.3439
.163		.2259					
.177			.1984				
.229	.0364						
.246		.1489					
.250				.1765	.2208	.2703	.3051
.274			.1915				
.362	.1096						
.390		.1993					
.403				.1336	.2048		.2948
.402			.1214				
.497	.1771						
.530				.1295	.5806		
.563			.2603				
.600						.2571	
.630					.2937		
.700	.1800			.1366	.1801		
.725						.1061	.1172
.750							
.760			.0558				
.775				-.0081	.0623		
.808			-.0708				
.834	-.1360						
.850				-.1541	-.0925	-.0598	
.857			-.2110				
.885	-.1865						
.900	-.2762			-.2399			-.0889
.905			-.2564		-.2340		
.930				-.3197		.0000	
.955			-.3638				
.965	-.3461						



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R33113)

LOWER WING

ARC97-716 1A14 Q1+T12+S12N25

ALPHA(1) = 0.050 BETA(1) = 0.070

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	X/CW	.2890	.3640	.4270	.5340	.6730	.7800	.8870
.000	-.1670	-.3185	.1080	.6362	.6937	.6379	.6269	
.020			.2830	.4622	.4712	.4810	.4892	
.030		-.0494						
.040			.2275	.3777	.3652	.3805	.4047	
.048	-.0311			.3196				
.060			.2116					
.085		.0678						
.096	-.0004			.2057	.2630	.3084	.3434	
.094		.2053						
.150			.2387					
.163	.0370	.1505		.1739	.2383	.2894	.2924	
.177			.2044					
.229		.1934		.2080	.2636		.3172	
.246	.1362		.1968					
.290				.2300	.3639			
.400	.1679		.1928				.2920	
.402					.2754			
.497		.1379		.0276	.1500			
.550			-.0576	-.0807	.0411		.0978	.1062
.565			-.1571					
.600				-.2259	-.1085	-.0898		
.630		-.1885	-.2601					
.700								
.725								
.750								
.760								
.775								
.808								
.834								
.850								
.857								
.869								
.900								
.903								
.950								
.953								
.965								

-1.002

.0000

-.3640

-.3634

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0831131

LOWER WING

ARC97-716 1A14 01-712-S12M25

ALPHA(5) = 0.000 BETA(5) = 0.180

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.1936	-.2515	-.0174	.3010	.5220	.4927	.4737
.020				.2597	.2930	.3366	.3373
.030			.1608				
.040		-.1095					
.048			.1572				
.050	-.0497			.1919	.2041	.2568	.2615
.080				.1767			
.085			.1605				
.086		.0324					
.094	-.0376						
.130				.1611	.1791	.2022	.2148
.163		.1437					
.177			.1492				
.229	.0140	.1169		.1478	.1601	.1769	.1688
.246			.1449				
.250							
.274							
.362	.1131	.1333					
.390				.1411	.1395		.1460
.400			.1400				
.472							
.497	.1217			.1036	.1265		
.550			.1030			.2224	
.595							
.600							
.650					.2412		
.700	.0680			-.0601	.0479		
.725						.0407	.0679
.790			-.1306				
.760				-.1268	-.0509		
.775			-.2144				
.808							
.834	-.2036			-.2433	-.1791	-.1265	
.850			-.2855				
.857							
.865	-.2345						
.900	-.3222			-.3087			-.1459
.905			-.3458	-.2914			
.950				-.3652		.0000	
.953			-.3666				
.965	-.8935						



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83L14) (10 JAN 74)

LOWER WING

ARC97-716 1A14 Q1+T12+S12N25

PARAMETRIC DATA

MACH = 2.203 ELEVON = .000
RUDDER = .000 SPDBRK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5800 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.970 BETA(1) = -7.830

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870

X/CW

.000	.1394	.1682	.4897	.8910	.8474	.7780	.8566
.020				.0552	.0119	-.0123	.0254
.030			.2240				
.040		.1850					
.048			.1412				
.050	.2778			-.0118	-.0187	-.0360	-.0597
.080				-.0364			
.085			.0724				
.086		.1402					
.094	.2127						
.150				-.0032	-.0366	-.0355	-.0619
.163		.1711					
.177			.0520				
.229	.1450						
.248		.0873		.0019	-.0417	-.0491	-.0604
.250			.0502				
.274							
.362	.1338						
.390		.0734		.0204	-.0248		-.0531
.400			.0356				
.402							
.497	.0363			.1277	.0095		
.550			.0924				
.565							
.600							-.0562
.650					-.0587		
.700	.0961				.0114		
.725				-.0265			
.750						-.0672	-.0924
.760			-.0012				
.775				-.0617	-.0047		
.808		.1263					
.834	.0844						
.850				.0808	-.0660	-.1036	
.857		.2002					
.885	.0288						
.900	.0764			.0925			-.1399
.915			.0395		-.0722		

(RB3114)

LOWER WING

ALPHA(1) = -7.970 BETA(1) = -7.830

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7800 .8870

X/CW

.930
.953
.965
-0.708
-0.412
-0.187
0.000

ALPHA(1) = -7.960 BETA(2) = -3.870

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7800 .8870

X/CW

.000
.020
.030
.040
.046
.050
.080
.085
.088
.094
.150
.163
.177
.229
.246
.250
.274
.352
.390
.400
.402
.497
.550
.603
.650
.703
.725
.750
.760
.775
.878
.834
.890

.0667 .0986 .3475 .7656 .7015 .6374 .6905
.0033 -.0444 -.0703 -.0390
.1316
.1017
.0830
-.0677 -.0725 -.1121 -.1112
-.0856
.0314
.0617
-.1455
.1100
.0081
.0302
-.0043
-.0434 -.0969 -.1020 -.1151
.0144
-.0009
-.0371 -.0720 -.1114
.0253
.0499 -.0478
-.1155
-.1106
-.0795
-.0464
-.1156 -.1403
-.0400
-.1074 -.0613
-.0163
-.0045 -.1150 -.1432

(R83L14)

LOWER WING

ALPHA(1) = -7.980 BETA(3) = .120

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.775				-.1282	-.1170		
.808			-.0678				
.834	-.0886						
.850				-.0655	-.1601	-.1515	
.857			-.0273				
.883	-.1181						
.900	-.1589			-.0329			-.1969
.905			-.0766	-.1290			
.930				-.0908		.0000	
.933			-.1375				
.965	-.1642						

ALPHA(1) = -7.980 BETA(4) = 4.040

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	.0228	-.0063	.1937	.4841	.4070	.3345	.3572
.020				-.0942	-.1445	-.1656	-.1516
.030			.0727				
.040		.0091					
.048			.0412				
.050	.0099			-.1275	-.1677	-.1967	-.1989
.060				-.1189			
.085			.0157				
.086		.0365					
.094	.0000						
.150				-.0950	-.1686	-.1927	-.1991
.163			.0617				
.177			-.0165				
.229	.0595						
.246		.0042					
.250				-.0793	-.1379	-.1690	-.1955
.274			-.0285				
.302	.0382						
.390		-.0388					
.400				-.0356	-.1011		-.1079
.432			-.0282				
.497	-.0286						
.550			-.0930	-.0842			
.605			-.0774				-.1804
.655						-.1265	



ALPHA2(1) = -7.990 BETA0 (4) = 4.040

SECTION (1) LOWER WING	DEPENDENT VARIABLE CP
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
24	0.000
25	0.000
26	0.000
27	0.000
28	0.000
29	0.000
30	0.000
31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
37	0.000
38	0.000
39	0.000
40	0.000
41	0.000
42	0.000
43	0.000
44	0.000
45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
66	0.000
67	0.000
68	0.000
69	0.000
70	0.000
71	0.000
72	0.000
73	0.000
74	0.000
75	0.000
76	0.000
77	0.000
78	0.000
79	0.000
80	0.000
81	0.000
82	0.000
83	0.000
84	0.000
85	0.000
86	0.000
87	0.000
88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

2000	3840	.4270	.5340	.6730	.7800	.8870
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AD/x

700	-0.793	-0.1362
725		-0.1006
750		-0.1419
775		-0.1768

760
-0859

-.775 -.0837 -.1608

.859 **-.0742**

.034 --.1559

-.0845 -.1618

057
--1041

.983 -.1713

9.223	-1.086	-.1250
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505
-1479
-1172

-.050 -.16/1 .020

-.10%

$$\text{ALPHA}(1) = -8.030 \quad \text{BETA}(5) = 6.100$$

SECTION (1) LINDER WING	DEPENDENT VARIABLE CP
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
44	0.00
45	0.00
46	0.00
47	0.00
48	0.00
49	0.00
50	0.00
51	0.00
52	0.00
53	0.00
54	0.00
55	0.00
56	0.00
57	0.00
58	0.00
59	0.00
60	0.00
61	0.00
62	0.00
63	0.00
64	0.00
65	0.00
66	0.00
67	0.00
68	0.00
69	0.00
70	0.00
71	0.00
72	0.00
73	0.00
74	0.00
75	0.00
76	0.00
77	0.00
78	0.00
79	0.00
80	0.00
81	0.00
82	0.00
83	0.00
84	0.00
85	0.00
86	0.00
87	0.00
88	0.00
89	0.00
90	0.00
91	0.00
92	0.00
93	0.00
94	0.00
95	0.00
96	0.00
97	0.00
98	0.00
99	0.00
100	0.00

[illegible]

PC/x

.000	-.0260	-.0577	.0923	.3381	.3342	.2569	.2919
.020				-.0921	-.1676	-.1672	-.1615
.220			.0796				

040
--0614

	0.749	.0426
1	1.0000	1.0000
2	1.0000	1.0000
3	1.0000	1.0000
4	1.0000	1.0000
5	1.0000	1.0000
6	1.0000	1.0000
7	1.0000	1.0000
8	1.0000	1.0000
9	1.0000	1.0000
10	1.0000	1.0000
11	1.0000	1.0000
12	1.0000	1.0000
13	1.0000	1.0000
14	1.0000	1.0000
15	1.0000	1.0000
16	1.0000	1.0000
17	1.0000	1.0000
18	1.0000	1.0000
19	1.0000	1.0000
20	1.0000	1.0000
21	1.0000	1.0000
22	1.0000	1.0000
23	1.0000	1.0000
24	1.0000	1.0000
25	1.0000	1.0000
26	1.0000	1.0000
27	1.0000	1.0000
28	1.0000	1.0000
29	1.0000	1.0000
30	1.0000	1.0000
31	1.0000	1.0000
32	1.0000	1.0000
33	1.0000	1.0000
34	1.0000	1.0000
35	1.0000	1.0000
36	1.0000	1.0000
37	1.0000	1.0000
38	1.0000	1.0000
39	1.0000	1.0000
40	1.0000	1.0000
41	1.0000	1.0000
42	1.0000	1.0000
43	1.0000	1.0000
44	1.0000	1.0000
45	1.0000	1.0000
46	1.0000	1.0000
47	1.0000	1.0000
48	1.0000	1.0000
49	1.0000	1.0000
50	1.0000	1.0000
51	1.0000	1.0000
52	1.0000	1.0000
53	1.0000	1.0000
54	1.0000	1.0000
55	1.0000	1.0000
56	1.0000	1.0000
57	1.0000	1.0000
58	1.0000	1.0000
59	1.0000	1.0000
60	1.0000	1.0000
61	1.0000	1.0000
62	1.0000	1.0000
63	1.0000	1.0000
64	1.0000	1.0000
65	1.0000	1.0000
66	1.0000	1.0000
67	1.0000	1.0000
68	1.0000	1.0000
69	1.0000	1.0000
70	1.0000	1.0000
71	1.0000	1.0000
72	1.0000	1.0000
73	1.0000	1.0000
74	1.0000	1.0000
75	1.0000	1.0000
76	1.0000	1.0000
77	1.0000	1.0000
78	1.0000	1.0000
79	1.0000	1.0000
80	1.0000	1.0000
81	1.0000	1.0000
82	1.0000	1.0000
83	1.0000	1.0000
84	1.0000	1.0000
85	1.0000	1.0000
86	1.0000	1.0000
87	1.0000	1.0000
88	1.0000	1.0000
89	1.0000	1.0000
90	1.0000	1.0000
91	1.0000	1.0000
92	1.0000	1.0000
93	1.0000	1.0000
94	1.0000	1.0000
95	1.0000	1.0000
96	1.0000	1.0000
97	1.0000	1.0000
98	1.0000	1.0000
99	1.0000	1.0000
100	1.0000	1.0000

.050	-.0005	-.0791	-.1920
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0000 -

505 .0276

1965-02-02

0657 .00000

.190 -.0808 -.1769

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

177
-0269

6229 --.0315

240	-.0043	2004	1336
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.290	--.1325

-.0494

Account	1962	1963
1.000	1.000	1.000
2.000	2.000	2.000
3.000	3.000	3.000
4.000	4.000	4.000
5.000	5.000	5.000
6.000	6.000	6.000
7.000	7.000	7.000
8.000	8.000	8.000
9.000	9.000	9.000
10.000	10.000	10.000
11.000	11.000	11.000
12.000	12.000	12.000
13.000	13.000	13.000
14.000	14.000	14.000
15.000	15.000	15.000
16.000	16.000	16.000
17.000	17.000	17.000
18.000	18.000	18.000
19.000	19.000	19.000
20.000	20.000	20.000
21.000	21.000	21.000
22.000	22.000	22.000
23.000	23.000	23.000
24.000	24.000	24.000
25.000	25.000	25.000
26.000	26.000	26.000
27.000	27.000	27.000
28.000	28.000	28.000
29.000	29.000	29.000
30.000	30.000	30.000
31.000	31.000	31.000
32.000	32.000	32.000
33.000	33.000	33.000
34.000	34.000	34.000
35.000	35.000	35.000
36.000	36.000	36.000
37.000	37.000	37.000
38.000	38.000	38.000
39.000	39.000	39.000
40.000	40.000	40.000
41.000	41.000	41.000
42.000	42.000	42.000
43.000	43.000	43.000
44.000	44.000	44.000
45.000	45.000	45.000
46.000	46.000	46.000
47.000	47.000	47.000
48.000	48.000	48.000
49.000	49.000	49.000
50.000	50.000	50.000
51.000	51.000	51.000
52.000	52.000	52.000
53.000	53.000	53.000
54.000	54.000	54.000
55.000	55.000	55.000
56.000	56.000	56.000
57.000	57.000	57.000
58.000	58.000	58.000
59.000	59.000	59.000
60.000	60.000	60.000
61.000	61.000	61.000
62.000	62.000	62.000
63.000	63.000	63.000
64.000	64.000	64.000
65.000	65.000	65.000
66.000	66.000	66.000
67.000	67.000	67.000
68.000	68.000	68.000
69.000	69.000	69.000
70.000	70.000	70.000
71.000	71.000	71.000
72.000	72.000	72.000
73.000	73.000	73.000
74.000	74.000	74.000
75.000	75.000	75.000
76.000	76.000	76.000
77.000	77.000	77.000
78.000	78.000	78.000
79.000	79.000	79.000
80.000	80.000	80.000
81.000	81.000	81.000
82.000	82.000	82.000
83.000	83.000	83.000
84.000	84.000	84.000
85.000	85.000	85.000
86.000	86.000	86.000
87.000	87.000	87.000
88.000	88.000	88.000
89.000	89.000	89.000
90.000	90.000	90.000
91.000	91.000	91.000
92.000	92.000	92.000
93.000	93.000	93.000
94.000	94.000	94.000
95.000	95.000	95

1920-1921

U.S. - .1050 - .1268

SECRET

44-1557-100

GRB31141

LOWER WING

ALPHA(1) = -8.030 BETA(1) = 8.100

ARC97-716 1A14 OX-T12-S12N25

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270 .5340 .6730 .7600 .8870
.500		-.1106 -.1323
.565		-.0930
.600		
.650		-.1684
.700		-.1323
.725	-.0741	-.0932
.750		-.1721
.760		-.1767
.775		
.808		-.0747
.834	-.1663	-.1323
.850		-.1266
.857		
.865		-.1397
.900	-.1911	-.1230
.905	-.2110	-.1716
.925		-.1542
.950		-.1760
.955		-.1481
.955		-.2082
.963		.0000
.963	-.8326	-.2140
		-.1957

ALPHA(2) = -4.030 BETA(1) = -7.760

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270 .5340 .6730 .7600 .8870
.1093	.1533	.4663
.020		.6797
.030		.8545
.040	.2516	.8096
.048	.1650	.0700
.050		.0489
.080		.0929
.085		
.086	.0923	
.094	.1447	.0350
.130		.0392
.165		.0059
.177	.1711	.0018
.229	.0589	.0032
.246		
.250	.1444	
.274	.0935	.0350
.362		.0153
		.0069
		.0066
		.0025
		.0025



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(RBSL14)

LOWER WING

ARC97-716 1A14 O1+712+S12N23

ALPHA(2) = -4.030 BETA(1) = -7.790

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW		.0836		.0236	.0114		.0066
.390							
.400							
.402			.0431				
.497	.0322						
.530			.1429	.0359			
.565		.1113					
.600							
.650							
.700	.0930				.0053		
.729							
.750							
.760		.0133					
.779							
.800		.1638					
.834	.0632						
.850							
.857			.2160	.0924	.0526	.0936	
.865	.0409						
.900	.0287			.1074	.0859		.1177
.905		.0810					
.950			.0357			.0000	
.953							
.965	.0561						

ALPHA(2) = -4.030 BETA(2) = -3.640

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW		.0732	.3768	.7398	.7070	.6684	.7301
.000							
.020				.0360	.0002	.0168	.0187
.030			.1488				
.040		.0912					
.049			.0838				
.050	.0179						
.060							
.069							
.086		.0736					
.094	.1492						
.150							
.169		.0920					
.177							
.029							

(RBSL14)

LOWER WING

ALPHA(2) = -4.030 BETA(2) = -3.840

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.246		.0325					
.250				-.0319	-.0589	-.0578	-.0649
.274			-.0035				
.362	.0383						
.390		.0004					
.400				-.0288	-.0448		-.0642
.402			-.0069				
.497	-.0032						
.590				.0832	-.0339		
.585			.0455				
.600							
.650							
.700	.0197			-.0568	-.0206	-.0870	-.0758
.725							
.750							
.760							
.775			-.0319	-.0885	-.0414	-.0957	-.1114
.838			.0259				
.834	.0004						
.850				-.0334	-.0982	-.1285	
.857			.1391				
.885	-.0194						
.900	-.0649			.0612			-.1591
.905			.0231	-.1028			
.950				-.0106		.0000	
.953			-.0687				
.965	-.1031						

ALPHA(2) = -4.040 BETA(3) = .040

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.0030	.0255	.2357	.5801	.5718	.5216	.3758
.020				-.0324	-.0566	-.0765	-.0418
.050			.0672				
.040		.0164					
.048			.0371				
.050	-.0158			-.0704	-.0821	-.1112	-.1076
.080				-.0764			
.025			.0097				
.048		.0383					
.098	.0488						



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 272

(B33114)

LOWER WING

ALPHA(2) = -4.040 BETA(3) = .040

ARC97-716 1A14 Cx+Yz+S12N25

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	X/CW	CP
.2990	.3640	.4270
.3340	.5340	.6730
.7600	.6670	
.150		
.163	.0360	-.0768
.177		-.0995
.229	.0186	-.1141
.246	.0113	
.290		-.1166
.274		
.352	.0376	-.0515
.390		-.1102
.403	-.0237	-.1093
.402		-.1146
.497	-.0169	-.0547
.535		-.0772
.565		-.0239
.630		.0140
.690		-.0639
.703	-.0316	-.0286
.729		
.730		-.1086
.760		-.1105
.775		-.1132
.819		-.1498
.834	-.0901	
.890		-.1229
.897		-.0906
.863	-.1203	
.907	-.1459	-.0157
.915		-.1416
.950		-.1324
.950		-.0020
.973		-.1207
.965	-.1241	.0000
	-.1462	

ALPHA(2) = -4.040 BETA(4) = 3.960

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	X/CW	CP
.2990	.3640	.4270
.3340	.5340	.6730
.7600	.6670	
.150		
.163	-.0284	.1602
.177		.3942
.229		.3292
.246		.4013
.290		-.0769
.274		-.1177
.352	.0639	-.1316
.390		-.0965
.403		
.402	.0179	
.497		.0829
.535		
.565		-.1241
.630		-.1462
.690		-.1229
.703		-.1105
.729		-.1132
.730		-.1498
.760		-.1229
.775		-.0906
.819		-.0157
.834	-.0901	-.1416
.890		-.1324
.897		-.0020
.863	-.1203	-.1207
.907	-.1459	.0000
.915		
.950		
.950		
.973		
.965		

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-718 1A14 Q4+T18+SIENES

ALPHA(2) = -4.040 BETA(4) = 3.960

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3840	.4270	.5340	.6730	.7800	.8870
X/CW							
.080				-.0796			
.095			-.0113				
.086		.0162					
.094	-.0296						
.150				-.0774	-.1264	-.1435	-.1520
.163		.0417					
.177			-.0421				
.229	.0029						
.246		-.0024					
.290				-.0728	-.1010	-.1374	-.1513
.274			-.0462				
.362	-.0038						
.390		-.0524		-.0426	-.0607		-.1474
.400			-.0303				
.402							
.497	-.0563			-.0737	-.0539		
.550			-.0594				
.565						-.0919	-.1407
.600							
.650					-.1170		
.700	-.0854			-.0808			
.785						-.1211	-.1416
.750			-.0543				
.760			-.0390	-.1267			
.775			-.0577				
.808							
.834	-.1516			-.0743	-.1301	-.1636	
.850			-.1090				
.857							
.885	-.1636			-.1197			-.1674
.900	-.1752						
.905			-.1513	-.0941			
.950				-.1618		.0000	
.953			-.1862				
.965	-.2021						



ARC97-716 1A14 O1+T12+S12N25

$$\text{ALPHA}(2) = -4.060 \quad \text{BETA}(5) = 7.980$$

SECTION / 111000 WING

DEPENDENT VARIABLE CP

Y/B/W	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.0351	-.1150	.0462	.3034	.2866	.2326	.3962
.020				-.0672	-.1622	-.1780	-.1196
.030			.0396				
.040		-.1121					
.048			.0100				
.050	-.0345			-.0618	-.1763	-.2032	-.1712
.060				-.0652			
.066		-.0568	.0036				
.094	-.0224						
.150				-.0739	-.1414	-.1921	-.1719
.163		-.0205					
.177			-.0366				
.229	-.0348						
.248		-.0372					
.250				-.0863	-.1162	-.1556	-.1697
.274			-.0536				
.362	-.0664						
.390		-.0460					
.400			-.0700	-.1012	-.1150		-.1528
.462							
.497	-.0739					-.0728	
.550				-.1083	-.1213		
.585			-.0957				
.600							
.650							
.700	-.0700			-.0364		-.0833	-.0972
.725							
.730			-.0957				
.760				-.0664	-.0362		
.775							
.808			-.1115				
.834	-.1644						
.850				-.1360	.0903	-.0724	
.857			-.1440				
.869	-.1693						
.900	-.2008			-.1723	-.1289		-.1432
.905			-.1755				
.950				-.2008		.0000	
.953			-.2050				
.959	-.2203						

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83L14)

LOWER WING

ARC97-716 1A14 Q1+T12+S12N25

ALPHA(3) = -.180 BETA(2) = -3.860

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/B	.2890	.3840	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.0131	.0605	.3868	.7763	.7691	.7190	.7833
.020				.1037	.0711	.0605	.1085
.030			.1793				
.040		.0947					
.048			.1026				
.050	-.0136			.0249	.0445	.0247	.0178
.080				-.0015			
.083			.0378				
.086		.0648					
.094	.1199			-.0138	.0117	.0084	.0125
.150		.0969					
.163			.0141				
.177							
.229	.0359						
.246		.0420					
.250				-.0046	-.0159	.0040	.0086
.274			.0165				
.362	.0371						
.390		.0212					
.400			.0006	-.0020	.0040		.0040
.402							
.497	.0078			.0854	.0040		
.550			.0840				
.563							
.600							
.650							
.700	.0456						
.725				-.0196	-.0230		
.750							
.760			-.0100				
.775				-.0559	-.0038		
.808			.1338				
.834	.0475						
.850				.0730	-.0567	-.1064	
.857			.1980				
.865	.0186						
.900	-.0031		.0855	.1009	-.0770		-.1256
.903				.0283			.0000
.950							
.953			-.0345				
.965	-.0745						

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OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

08831141

LOWER WING

ARC97-715 1A14 O1-T12-S12N25

ALPHA(3) = -.190 BETA(3) = .040

SECTION (3) LOWER WING DEPENDENT VARIABLE CP

Y/BW	Y/CW	CP	CP	CP	CP
.8980	.3640	.4270	.5340	.6730	.7600
.8870					
.8760					
.8650					
.8540					
.8430					
.8320					
.8210					
.8100					
.7990					
.7880					
.7770					
.7660					
.7550					
.7440					
.7330					
.7220					
.7110					
.7000					
.6890					
.6780					
.6670					
.6560					
.6450					
.6340					
.6230					
.6120					
.6010					
.5900					
.5790					
.5680					
.5570					
.5460					
.5350					
.5240					
.5130					
.5020					
.4910					
.4800					
.4690					
.4580					
.4470					
.4360					
.4250					
.4140					
.4030					
.3920					
.3810					
.3700					
.3590					
.3480					
.3370					
.3260					
.3150					
.3040					
.2930					
.2820					
.2710					
.2600					
.2490					
.2380					
.2270					
.2160					
.2050					
.1940					
.1830					
.1720					
.1610					
.1500					
.1390					
.1280					
.1170					
.1060					
.0950					
.0840					
.0730					
.0620					
.0510					
.0400					
.0290					
.0180					
.0070					
.0000					
-.0110					
-.0220					
-.0330					
-.0440					
-.0550					
-.0660					
-.0770					
-.0880					
-.0990					
-.1100					
-.1210					
-.1320					
-.1430					
-.1540					
-.1650					
-.1760					
-.1870					
-.1980					
-.2090					
-.2200					
-.2310					
-.2420					
-.2530					
-.2640					
-.2750					
-.2860					
-.2970					
-.3080					
-.3190					
-.3300					
-.3410					
-.3520					
-.3630					
-.3740					
-.3850					
-.3960					
-.4070					
-.4180					
-.4290					
-.4400					
-.4510					
-.4620					
-.4730					
-.4840					
-.4950					
-.5060					
-.5170					
-.5280					
-.5390					
-.5500					
-.5610					
-.5720					
-.5830					
-.5940					
-.6050					
-.6160					
-.6270					
-.6380					
-.6490					
-.6600					
-.6710					
-.6820					
-.6930					
-.7040					
-.7150					
-.7260					
-.7370					
-.7480					
-.7590					
-.7700					
-.7810					
-.7920					
-.8030					
-.8140					
-.8250					
-.8360					
-.8470					
-.8580					
-.8690					
-.8800					
-.8910					
-.9020					
-.9130					
-.9240					
-.9350					
-.9460					
-.9570					
-.9680					
-.9790					
-.9900					



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83L14)

LOWER WING

ARC97-710 1A14 OL-T12+512N03

ALPHA(3) = -.800 BETA(4) = 4.050

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

Y/W	.2890	.3640	.4270	.5340	.6750	.7600	.8870
X/CW							
.000	-.0714	-.0690	.1413	.5002	.4992	.4431	.4980
.020			.0970	.0086	-.0393	-.0648	-.0276
.030							
.040			-.0308	.0432			
.050	-.0764			-.0379	-.0373	-.0023	-.0915
.060				-.0512			
.085			.0093				
.096		.0010					
.094	-.0429			-.0566	-.0701	-.0891	-.0944
.130		.0373					
.163			-.0273				
.177							
.229	-.0097						
.246		.0049					
.250				-.0556	-.0674	-.0813	-.0883
.274			-.0266				
.362	-.0124						
.390		-.0208					
.400				-.0210	-.0500		-.0729
.402			-.0137				
.497	-.0533			-.0198	.0269		
.550							
.563			-.0176				
.600						-.0061	-.0642
.650					-.0526		
.700	-.0217			.0127		-.0477	-.0611
.723							
.750			.0105				
.760				.0320	-.0519		
.773			-.0306				
.808							
.834	-.1174			-.0309	-.0522	-.1110	
.850			-.0862				
.857							
.863	-.1203			-.0849			-.1086
.900	-.1412		-.1303		-.0231		
.903				-.1333		.0000	
.950							
.953			-.1693				
.963	-.1873						

(983114)

TABULATED PRESSURE DATA - 1A148 - VOL. 2

LOWER WING

ARC97-716 1A14 01-T12-S12M25

DATE 27 JAN 73

ALPHA(4) = 3.950 BETA(1) = -7.910

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.1121	.1159	.4807	.9560	.9408	.8927	.9576
.020			.2661	.2501	.2627	.2757	.3124
.030		.1381					
.040			.1958				
.048				.1563	.2261	.2378	.2287
.050	.1060		.1520	.1237			
.080							
.085		.1420					
.088							
.094	.0776			.1120	.1033	.1833	.2153
.130		.1771	.1070				
.163							
.177							
.229	.0880	.1103		.1016	.1313	.1668	.1964
.246			.1050				
.250							
.274							
.362	.1123	.1084		.1023	.1277		.1786
.390			.0930				
.403							
.402	.0638			.2659	.1427		
.497			.2134				.1292
.530							
.563							
.600					.0970		
.650	.1438			.0780	.1480		
.700						.0873	.0605
.723			.2052	.0508	.1357		
.750							
.780			.4210				
.773							
.808			.2437	.2515	.0530	.0208	
.834	.3088						
.850							
.857							
.853	.2417			.1304	.0987		-.0321
.907	.1082		.0990	.0478			
.913							
.930			-.0038				
.933							
.963	-.0403						

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(R93114)

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 01+T12+S12N25

LOWER WING

ALPHA(4) = 3.943 BETA(3) = .030

SECTION () LOWER WING	DEPENDENT VARIABLE CP
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
24	0.000
25	0.000
26	0.000
27	0.000
28	0.000
29	0.000
30	0.000
31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
37	0.000
38	0.000
39	0.000
40	0.000
41	0.000
42	0.000
43	0.000
44	0.000
45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
66	0.000
67	0.000
68	0.000
69	0.000
70	0.000
71	0.000
72	0.000
73	0.000
74	0.000
75	0.000
76	0.000
77	0.000
78	0.000
79	0.000
80	0.000
81	0.000
82	0.000
83	0.000
84	0.000
85	0.000
86	0.000
87	0.000
88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

V/BW	.2990	.3640	.4270	.5340	.6750	.7600	.8670
------	-------	-------	-------	-------	-------	-------	-------

MAJX

.000	-.0475	.0040	.2952	.7122	.6647	.6500	.7022
.020				.1259	.1150	.1198	.1682
.030			.1559				
.040		.0255					
.049			.1064				
.050	-.0441			.0544	.0842	.0940	.0916
.060				.0355			
.063			.0783				
.066		.0697					
.094	-.0734						
.150		.1035		.0097	.0418	.0563	.0617
.163			.0432				
.177							
.229	.0095	.0376					
.246				.0247	.0251	.0503	.0718
.250			.0311				
.274							
.362	.0561		.0227				
.390		.0262		.0329	.0452		.0639
.400							
.402							
.497	.0198			.1476	.0580		
.550			.0576				.0320
.565							
.600							
.650						.0318	
.700	.0290			-.0155	.0799		
.725							.0199
.750			.0446				-.0114
.760				-.0184	.0321		
.775			.2536				
.808							
.834	-.0290						
.850							
.867			.1153				
				.1982	-.0463	-.0071	
.865	-.0398						
.900	-.0374			.1026	.0560		-.0793
.925			-.0523				
.950				.0024		.0000	
.965			-.0775				
.965	-.0987						

(R83114)

LOWER WING

$$\text{ALPHA}(4) = 3.940 \quad \text{BETA}(4) = 3.980$$

ARC97-716 1A14 Q1+712+512N25

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

27

Y/814	.8990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.1032	-.0936	.1579	.5254	.5740	.5516	.5979
.020				.1254	.1110	.1147	.1346
.030			.1501				
.040		-.0237					
.046			.0945				
.050	-.0455			.0511	.0729	.0846	.0750
.060				.0294			
.065			.0577				
.066							
.094	-.0253	.0116					
.150							
.163		.0676		.0064	.0416	.0326	.0676
.177			.0106				
.229	.0064						
.246		.0350					
.250				.3166	.0353	.0509	.0623
.274			.0236				
.362	.0103						
.390		.0301					
.400				.0679	.0665		.0647
.497	-.0094		.0531				
.530							
.565				.0731	.0916		
.600			.0569				.0457
.650						.0693	
.700	.0469			.1106	.0172		
.725							
.730						.0217	.0169
.760			.0541				
.775			-.0007	.0643	-.0027		
.808	-.0532						
.834							
.850				-.0061	.0676	-.0550	
.857			-.0691				
.865	-.0766						
.900	-.1127		-.1145	-.0667	-.0139		-.0572
.905							
.950				-.1210		.0000	
.953			-.1569				
.965	-.1716						

(493214)

DATE 07 JAN 78

LONG WING

APC97-716 1A14 Q1+T12+S12+25

ALPHA (4) = 3.950 BETA (3) = 0.020

DEPENDENT VARIABLE CP

	.2997	.3640	.4270	.5340	.6730	.7800	.8870
--	-------	-------	-------	-------	-------	-------	-------

22/11

0.00	-0.1147	-0.1743	-0.0243	0.2733	0.4312	0.5664	0.6189
0.00				0.0795	0.0674	0.2119	0.2278
0.00		-0.1354	0.0610				
0.00			0.0452				
0.00	-0.0501			0.0362	0.0218	0.1411	0.1435
0.00			0.0252	0.0241			
0.00		-0.0694					
0.00	-0.0407			0.0069	0.0271	0.0973	0.1136
0.00		-0.0030	-0.0023				
0.00	-0.0776						
0.00		-0.0103		0.0166	0.1081	0.1029	0.0922
0.00	-0.0306		0.0156				
0.00		-0.0003		0.0637	0.1642		0.0873
0.00	-0.0099		0.0004				
0.00			0.1066	0.1423	0.1498		
0.00							0.0777
0.00	0.0176			0.0248	0.0572	0.1033	
0.00			-0.0032				
0.00			0.0520	-0.0146	0.0232		
0.00	-0.0323						
0.00			-0.1030	-0.0809	-0.0420	-0.0290	
0.00	-0.0737			-0.1202			-0.0493
0.00	-0.1216		-0.1404	-0.1010			
0.00			-0.1733	-0.1545		0.0000	
0.00	-0.1914						

DATE 27 JAN 75

LOWE WING

AR97-716 1A14 C1+T12+S12N23

ALPHA (3) = 0.050 BETA (2) = -4.000

DEPENDENT VARIABLE CP

Y/BW	29900	36400	42700	53400	67300	78000	88700
X/CW							
.000	.0117	.0451	.4023	.8656	.8630	.8167	.8556
.020			.2870	-.2924	.4107	.4302	.4455
.030		.1038					
.040			.1989				
.048				.1974	.2871	.3227	.3389
.050	.0708			.1593			
.080			.1349				
.088		.1040					
.094	.0219			.1312	.2181	.2608	.3053
.150		.1400					
.163			.0819				
.177	.0689						
.246		.0793		.1178	.1914	.2404	.2701
.250			.0788				
.274							
.352	.0780	.0817		.1120	.2006		.2491
.400			.0723				
.472							
.497	.0426			.2118	.2612		
.550			.1789			.2336	.2660
.565							
.600							
.650							
.700	.1303			.1610	.1298		
.725							.2012
.750			.3511	.2773	.1432		
.769							
.773			.3284				
.808							
.834	.2052		.1573	.1537	.0838	.0850	
.850							
.857							
.883	.1471			.0581			.0561
.900	.0374		.0321		-.0009		
.903							
.937				-.0242		.0000	
.933			-.0525				
.983	-.0678						

(R23114)

LOWER WING

ALPHA(1) = 0.080 BETA(3) = .000

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP			
V/CW					
	.2990	.3640	.4270	.5340	.6730
				.7600	.8870
M/CW					
.000	-.0777	-.0323	.3126	.7207	.7238
.020				.5997	.7345
.030			.2172	.2332	.3129
.040		.0383		.3430	.3699
.048			.1503		
.050	-.0173		.1563	.2190	.2509
.060			.1364		.2781
.063			.1274		
.066		.0684			
.094	-.0006		.1163	.1756	.2036
.130				.2036	.2498
.163		.1411			
.177		.0662			
.229	-.1766				
.246		.0783		.0982	.1658
.250			.0511	.1993	.2272
.274					
.362	.0616			.1132	.1552
.390		.0464			.2162
.400			.0931		
.497	.0448			.1389	.1876
.530			.0572		
.563					.1584
.600				.0936	.1781
.700	.0830		.2198		
.723				.1233	.1643
.730					
.760		.2619			
.773			.2796	.0697	
.808		.0377			
.834	.0273		.1682	.2027	.0618
.850		.0484			
.857					
.863	.0042				
.900	-.0593		.0678		.0538
.939		-.0447	.0762		
.950		-.0166		.0000	
.953		-.1034			
.963	-.1864				



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(583.14)

LOWER WING

ARC97-716 1A14 OR+712+512N25

ALPHA (S) = 0.030 BETA (A) = 4.010

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

Y/M	X/CW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
.000	-.1273	-.1036	.2096	.6392	.8701	.6278	.6400	
.020		.2207		.2597	.3122	.3194	.3192	
.040		.0003						
.060			.1510					
.080	-.0986			.1490	.2070	.2317	.2439	
.100				.1173				
.120			.1033					
.140		.0474						
.160	-.0093			.0919	.1621	.1863	.2235	
.180		.1084						
.200	.177	.0713						
.220	.0213	.0697						
.240			.1216	.1444	.1815	.2096		
.260	.274	.1080						
.280	.362	.0390	.0992					
.300				.1173	.1479		.2071	
.320	.422		.1049					
.340	.497	.0653		.1376	.1434			
.360	.550		.1145					
.380	.593						.1578	
.400	.600				.1191			
.420	.700	.0934		.0462				
.440	.729		.1502			.0501	.0863	
.460	.750							
.480	.760	.0637		.1523	.0450			
.500	.773		.0170					
.520	.809							
.540	.834	-.0418		.0496	.1719	-.0240		
.560	.850		-.0542					
.580	.863	-.0608						
.600	.900	-.1039		-.0318	.0336		-.0234	
.620	.903		-.1061					
.640	.931			-.0998		.0000		
.660	.933		-.1443					
.680	.955	-.1618						

00351141

LOWER WING

ALPHA(5) = 0.110 BETA(5) = 0.080

ARCS7-T16 1A14 01+T12+S12N25

SECTION (1): LOWER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6750	.7800	.8870
X/CL							
.000	-.1476	-.1887	-.0306	.3018	.6990	.6750	.6774
.020				.1488	.3264	.3661	.3433
.030			.0978				
.040		-.1033					
.048			.0795				
.050	-.0807			.1060	.2113	.2598	.2593
.060				.0926			
.085			.0566				
.105		-.0255					
.134	-.0313						
.150				.0768	.1734	.1922	.2211
.163		.0482					
.177			.0718				
.229	-.0513						
.246		.0239					
.250			.0826				
.274				.1082	.1775	.1814	.1965
.362	.0183						
.390		.0673					
.400				.1388	.1465		.1926
.402			.1184				
.497	.0395						
.550				.1282	.1491		
.585			.1243				
.600							.1585
.650					.1304		
.700	.1074			.0292	.0690		
.725							
.750						.0905	.0941
.760			-.0061				
.775				-.0121	.0414		
.808			-.0492				
.834	-.0494						
.850			-.0998	-.0734	-.0235	.0117	
.857							
.865	-.0819						
.900	-.1198			-.1113			-.0035
.905			-.1386	-.0842			
.930				-.1454		.0000	
.955			-.1658				
.965	-.1877						



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(830211) (10 JAN 74)

ARC97-716 1A14 OI+T12+S12N23+AT11 UPPER WING

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPEEDBRK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5600 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.950 BETA(1) = -7.970

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW	.000	.1166	.1009	.3918	.7144	.6468	.5721
.020				.6845	.6772	.7119	
.025			.4252				
.040		.1417					
.045			.3610				
.050	.1181			.4600	.4637	.4615	.5282
.060				.3227			
.085			.2906				
.096		.2032					
.094	.0807			.1116	.1408	.2085	.2622
.130		.0000					
.163			.1257				
.177		.1947					
.193							
.229	.1045			-.0380	-.0103	.0255	.0487
.250			.0085				
.274							
.339	.0219						
.362	.1818			-.1479	-.1545		-.1484
.400							
.402			-.1257				
.497	.0000			-.1946	-.2042		
.530			.0000				
.565							
.600							
.630							
.630							
.700	-.0700						
.725				-.0490			
.750							
.760			.0736				
.775			.2294	.1337	-.1800		
.838							
.834	.1840			.1826	-.0149	-.1997	
.850			.2433				
.857							
.8706							
.865	.2706			.2066			-.1497
.900	.2712		.2536				
.904							

ORIGINAL PAGE IS
OF POOR QUALITY

(083021)

ARC97-716 1A14 Q1+T12+SI203+AT11 UPPER WING

ALPHA(1) = -7.930 BETA(1) = -7.970

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870

X/CW

.930			.2211			-1.090
.953		.2329				
.963	.2036					

ALPHA(1) = -7.930 BETA(2) = -4.300

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870

X/CW

.000	.0646	.0445	.2913	.6075	.5372	.4647	.5011
.020				.6297	.6086	.6156	.6293
.025		.3372					
.040		.0951					
.045			.3075	.4336	.4343	.4257	.4740
.050	.0428			.2799			
.080		.2514					
.085							
.086		.1594					
.094	.0138						
.130				.0897	.1317	.1853	.2327
.163		.0000					
.177		.0997					
.193		.1793					
.229	.0807						
.250				-.0449	-.0114	.0099	.0327
.274			.0006				
.339	-.0029						
.362	.1378						
.400				-.1461	-.1588		-.1583
.402		-.1345					
.497	.0000						
.530				-.2104	-.2062		
.565		.0000					
.600							
.690							
.700	-.0868						
.725				-.0709			
.730							
.760							
.775		.0370					
.808				.0968	-.1871		
.834	.1891	.1693					
.850				.1540	-.0322	-.2033	



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 291

ARC97-716 1A14 Q1+T12+S12N25+AT11 UPPER WING

(R83U11)

ALPHA0 (1) = -7.950 BETA0 (2) = -4.300

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7600 .8670

X/CW

.837	.1845
.865	
.1940	
.900	.1696
.1947	
.905	.1867
	.0090
.925	.1813
	-.1010
.950	
.955	.1652
.985	
.1340	

ALPHA0 (1) = -7.980 BETA0 (3) = -.130

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7600 .8670

X/CW

.000	-.0083	-.0348	.1925	.4423	.3793	.3252	.3673
.020				.5475	.4963	.5170	.5364
.025		.2904					
.040		.0279					
.045			.2554				
.050	-.0300		.3670	.3593	.3596	.4112	
.060			.2624				
.065			.2288				
.086		.1011					
.094	-.0363			.0654	.1111	.1548	.1984
.130		.0060					
.163							
.177		.1485					
.193							
.229	.0403						
.250				-.0397	-.0159	-.0007	.0191
.274							
.339		-.0139					
.362	.1055						
.400				-.1363	-.1506		-.1547
.402			-.1315				
.497	.0000			-.1946	-.1911		
.530							
.565			.0000				
.600							
.650							-.2326
.700	-.0935						-.2161
.725							-.1076
.750				-.0371			-.2034
.765			.0334				-.2419

ORIGINAL PAGE 1
DE POOR QUALITY

(R83U11)

ARC97-716 1A14 OI+T12+S12N25+AT11 UPPER WING

ALPHA(O) (1) = -7.980 BETA(O) (3) = -.130

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP	
Y/BW	X/CW		
.2990	.3640	.4270	.5340 .6730 .7600 .8670
.775		.1239	-.1212
.808		.1766	
.834	.1067		
.850		.1646	.0104 -.1694
.857		.1506	
.865	.1341		
.900	.1763	.1627	.0790 -.1614
.905		.1496	
.930		.1582	-.0217
.953		.1256	
.965	.0890		

ALPHA(O) (1) = -7.970 BETA(O) (4) = 3.810

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP	
Y/BW	X/CW		
.2990	.3640	.4270	.5340 .6730 .7600 .8670
-.0567	-.0428	.1179	.3456 .2725 .8955 .3166
.020		.4672	.4190 .5302 .5360
.025	.2239		
.040	-.0023		
.045	.2041	.3349	.3042 .3946 .4318
.050	-.0602	.2269	
.080		.1779	
.085	.0664		
.094	-.0764	.0765	.0975 .2136 .2262
.130	.0000		
.163	.0990		
.177	.1241		
.193			
.229	.0221	-.0455	-.0193 .0553 .0461
.230		-.0045	
.274	-.0327		
.339			
.362	.0914	-.1316	-.0937 -.1244
.400		-.1247	
.402	.0000		
.497		-.1752	-.1346
.530		.0000	
.565			
.600			
.650			
			-.1710
			-.1916



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83J11)

ARC97-716 1A14 O1+T12+S12N25+AT11 UPPER WING

ALPHA(1) = -7.970 BETA(4) = 3.610

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8670
X/CW	.700	-.0949			-.0904		
.725				.0426		-.1629	-.1912
.750							
.760			.0581				
.775				.2061	-.0245		
.808			.1923				
.834	.1004						
.850				.2081	.1010	-.0606	
.857			.1717				
.855	.1371						
.900	.1281		.1887		.2042		-.1196
.905			.1589				
.950	.950		.1712			.0566	
.953			.1365				
.965	.1046						

ALPHA(1) = -7.990 BETA(5) = 7.780

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8990	.9640	.4270	.5340	.6730	.7800	.8670
X/CW	.000	-.1628	-.0209	.1726	.3454	.2317	.2192
.020				.4516	.3951	.4927	.4820
.025			.2404				
.040		.0116					
.045			.2259				
.050	-.0934			.3341	.2984	.3534	.4039
.060			.1946	.2504			
.085		.0841					
.094	-.0109						
.150				.1206	.1045	.1979	.2239
.153		.0000					
.177			.1022				
.193		.1572					
.229	.0843						
.250				-.0260	.0011	.0300	.0533
.274			.0436				
.339	.0090						
.362	.1148						
.400				-.1317	-.0636		-.1044
.472							
.697				-.0665			

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R33UB11)

ARC97-716 1A14 Q1+T12+SI2N3+AT111 UPPER WING

ALPHA(1) = -7.990 BETA(1) = 7.760

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7600 .8670

X/CW

.590	-.1801	-.1231				
.565	.0000					
.600						-.1701
.650						-.1507
.700	-.0415					
.725		.0458				
.750						
.760		.0909				
.775						
.808		.1844				
.834	.1017					
.850		.1739	.1913	.0607		
.857		.1496				
.865	.1304					
.900	.1127	.1452	.2165			-.0851
.905		.1266				
.930		.1198				.1663
.953		.1076				
.965	.0853					

ALPHA(2) = -4.020 BETA(1) = -7.920

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .3640 .4270 .5340 .6750 .7600 .8670

X/CW

.050	.1577	.0842	.4233	.7416	.7048	.6283	.6879
.020				.5758	.6047	.5933	.6315
.025			.3568				
.040		.1026					
.045			.2784				
.050	.0931			.3632	.3649	.3596	.4280
.060				.2117			
.085			.1658				
.086		.1581					
.094	.0810						
.150				.0099	.0531	.1019	.1681
.163		.0000					
.177		.0374					
.193		.1104					
.229	.0553						
.250				-.1225	-.1076	-.0719	-.0342
.274							
.359		-.0537		-.0868			



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
 ARCS7-716 1A14 Q1+T12+512M23+AT111 UPPER WING

(R83U11)

ALPHA(2) = -4.020 BETA(1) = -7.920

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.362	.0987						
.400							
.402							
.497	.0000						
.530							
.565							
.600							
.630							
.700							
.723							
.730							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.930							
.953							
.965							

ALPHA(2) = -4.020 BETA(2) = -4.110

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	.0669	.0294	.3337	.6304	.5904	.5193	.3722
.020				.5253	.5496	.5466	.5647
.025							
.040							
.045							
.050							
.067							
.099							
.095							
.094							
.130							
.143							
.177							
.193							

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

GR31011

ARC97-716 1A14 Q1+712+S12N25+AT11 UPPER WING

ALPHA(2) = -4.020 BETA(2) = -4.110

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW	.229	.0242					
	.250			-.1336	-.1004	-.0728	-.0474
	.274		-.0914				
	.339	-.0664					
	.362	.0790		-.2252	-.2352		-.2223
	.400		-.2015				
	.402			-.2685	-.2776		
	.487	.0000		.0000			-.2739
	.530						
	.563						
	.600						
	.650						
	.700	-.1486		-.2333	-.1169		
	.725					-.3005	-.3080
	.750						
	.760		-.0454	-.0708	-.2568		
	.775		.0760				
	.809						
	.834	.0335		.0065	-.1866	-.2729	
	.850						
	.857		.1039				
	.865	.1451		.0433			-.2339
	.900	.1470			-.0564		
	.905		.1241				
	.920			.0850		-.2246	
	.953		.1145				
	.965	.0885					

ALPHA(2) = -4.030 BETA(3) = -.140

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
	.000	-.0316	-.0250	.2447	.5068	.4874	.4202
	.020				.4332	.4764	.4756
	.025			.2397			
	.040		.0167				
	.049			.1875			
	.050	-.0479			.2856	.2824	.3368
	.060				.1676		
	.085			.1145			
	.098		.0722				
	.094	-.0811					



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01-7112-312N23-A711 UPPER WING 0021.511

ALPHA(2) = -4.030 BETA(3) = -.140

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270
.3640	.5340	.6730
.6730	.7600	.8870
.8870	.0071	.0085
.0085	.0571	.1106
.1106	.0000	.0088
.0088	.0639	.0639
.0639	.229	-.0124
.229	.274	-.1284
.274	-.0790	-.0969
-.0969	-.0634	-.0634
-.0634	.339	-.0733
-.0733	.392	.0424
.0424	.403	-.2130
-.2130	-.2346	-.2292
-.2292	.402	-.1956
-.1956	.497	.0000
.0000	.530	-.2566
-.2566	.563	-.2661
-.2661	.600	.0000
.0000	.630	-.2914
-.2914	.700	-.1246
-.1246	.723	-.1723
-.1723	.750	-.2831
-.2831	.760	-.3083
-.3083	.773	-.0211
-.0211	-.2346	-.2346
-.2346	.808	.0839
.0839	.834	.0464
.0464	.850	-.1026
-.1026	.857	-.2536
-.2536	.863	.0687
.0687	.863	.0627
.0627	.903	.0929
.0929	.903	.0762
.0762	.950	-.0468
-.0468	.953	-.1602
-.1602	.953	.0941
.0941	.953	.0773
.0773	.953	.0397

ALPHA(2) = -4.030 BETA(4) = 3.760

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2990	.3640	.4270
.3640	.5340	.6730
.6730	.7600	.8870
.8870	.0071	.0085
.0085	.0571	.1106
.1106	.0000	.0088
.0088	.0639	.0639
.0639	.229	-.0124
.229	.274	-.1284
.274	-.0790	-.0969
-.0969	-.0634	-.0634
-.0634	.339	-.0733
-.0733	.392	.0424
.0424	.403	-.2130
-.2130	-.2346	-.2292
-.2292	.402	-.1956
-.1956	.497	.0000
.0000	.530	-.2566
-.2566	.563	-.2661
-.2661	.600	.0000
.0000	.630	-.2914
-.2914	.700	-.1246
-.1246	.723	-.1723
-.1723	.750	-.2831
-.2831	.760	-.3083
-.3083	.773	-.0211
-.0211	-.2346	-.2346
-.2346	.808	.0839
.0839	.834	.0464
.0464	.850	-.1026
-.1026	.857	-.2536
-.2536	.863	.0687
.0687	.863	.0627
.0627	.903	.0929
.0929	.903	.0762
.0762	.950	-.0468
-.0468	.953	-.1602
-.1602	.953	.0941
.0941	.953	.0773
.0773	.953	.0397

DATE 27 JAN 75 TABULATED PRESSURE DATA - IA14B - VOL. 2
ARC97-716 IA14 Q1+T12+S12N23+AT111 UPPER WING

(233.511)

ALPHA(2) = -4.030 BETA(4) = 3.760

SECTION (1) UPPER WING	DEPENDENT VARIABLE CP			
V/S	.2890	.3640	.4270	.5340 .6750 .7800 .8870
1/CW				
.580			.1376	
.585		.0955		
.586		.0351		
.594	-.1426			
.150			-.0204	.0359 .0909 .1212
.163		.0700		
.177			-.0040	
.193		.0540		
.229	-.0386			
.250			-.1244	-.0526
.274				-.0647
.339			-.0813	-.0499
.362	.0356			
.400		-.0890		
.402				
.437	.0000		-.2034	-.1848
.550				-.2136
.565			-.2034	-.2146
.600			.0000	
.605				-.2451
.650				-.2566
.700	-.1483			
.725			-.1102	
.750				-.2396
.760			-.0606	-.2909
.775				
.806			.0172	-.1712
.834			.1459	
.850	.0260			
.857				
.865			.1215	-.0264
.903	.0934			-.2104
.923	.1266			
.935			.1245	-.2016
.950			.1164	.0475
.953			.1241	-.0621
.955			.1023	
.963	.0917			



DATE 27 JAN 75
 TABULATED PRESSURE DATA - IAI48 - VOL. 2
 AEC97-716 IAI4 21+112+512N23+AT31 UPPER WING

223.51

ALPHA(2) = -4.040 BETA(5) = 7.760

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

X/CW	Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
.000	-.1977	-.0296	.1667	.4305	.3352	.2661	.3301	
.020			.1657	.3422	.3338	.3945		
.040		-.0161						
.060			.1670					
.080	-.1216		.2515	.1970	.2180	.2627		
.100			.1420					
.120			.1313					
.140		.0776						
.160	-.0620							
.180		.0000						
.200		.0873						
.220	.0217							
.240								
.260								
.280								
.300								
.320								
.340								
.360								
.380								
.400								
.420								
.440								
.460								
.480								
.500								
.520								
.540								
.560								
.580								
.600								
.620								
.640								
.660								
.680								
.700								
.720								
.740								
.760								
.780								
.800								
.820								
.840								
.860								
.880								
.900								
.920								
.940								
.960								
.980								
.000								

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(REVISION)

TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01-112-512N23-AT111 UPPER WING

DATE 27 JAN 75

ALPHA(3) = -.200 BETA(1) = -7.920

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/CW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	.1499	.0834	.4934	.7660	.7706	.6955	.7549
.020			.3132	.4821	.5423	.5014	.5274
.040		.0687					
.060			.2119	.2599	.2747	.2642	.3067
.080	.0794			.0969			
.100			.0830				
.120		.1807					
.140	.0588			-.0930	-.0535	.0033	.0592
.160		.0000					
.180		.0692					
.200		.0474					
.220	.0226						
.240				-.2146	-.1995	-.1615	-.1204
.260		-.1588					
.280		-.1191					
.300	.0518			-.3064	-.3131		-.2822
.320		-.2561					
.340	.0000			-.3440	-.3481		
.360		.0000					
.380						-.2591	
.400	-.1785			-.2981	-.1535		
.420						-.3297	
.440							
.460						-.3641	-.3355
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.1000							



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ARC97-716 1A14 OL+712+512+25+AT11 UPPER LUNG

ALPHA(1 3) = -.200 BETA(1 2) = -.4100

SECTION (1) UPPER LUNG DEPENDENT VARIABLE CP

1/8"	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.0714	.0116	.3941	.6997	.6868	.6193	.6654
.020				.4402	.5082	.4745	.4819
.025			.2663				
.040		.0187					
.045			.1842				
.050	.0031			.2326	.2610	.2473	.2803
.080				.0842			
.085			.0724				
.096		.0821					
.094	-.0144						
.150		.0000		-.0903	-.0538	.0026	.0423
.163							
.177		.0340					
.193			-.0561				
.229	-.0247						
.250				-.1909	-.1878	-.1575	-.1283
.274			-.1593				
.339		-.1362					
.362	.0449						
.407			-.2973	-.2916	-.2964		-.2866
.402							
.497	.0000			-.3192	-.3387		
.553			.0000				
.600							-.3029
.650					-.3284		
.700	-.2010			-.3039	-.1311		
.725						-.3640	-.3439
.750							
.760			-.1190	-.1833	-.3264		
.775			-.0264				
.805							
.834	-.0287			-.0995	-.3127	-.3394	
.850			.0088				
.857							
.863	.0778			-.0690			-.2886
.900	.1097		.0483		-.1618		
.915				-.0487		-.2917	
.930							
.953			.0587				
.981	.0378						

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GR3011)

ARC97-716 1A14 Q1-T12-S12N05+AT11 1-1PER WING

ALPHA(3) = -.210 BETA(3) = -.170

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/CW	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.0247	-.0563	.3037	.6141	.5949	.5352	.5638
.020				.4040	.4493	.4162	.4242
.025			.2026				
.040		-.0221					
.045			.1373				
.050	-.0533			.2133	.2267	.2035	.2359
.060				.0775			
.065			.0609				
.066		.0329					
.094	-.0632			-.0769	-.0672	-.0265	.0134
.150			.0000				
.163		.0102	-.0638				
.177							
.193							
.229	-.0550			-.1925	-.1945	-.1605	-.1493
.250			-.1475				
.274		-.1252					
.339				-.2628	-.3064		-.2990
.362	.0051		-.2475				
.400				-.3117	-.3401		
.402			.0000				
.497	.0000					-.3372	-.3129
.590					-.1318		
.565				-.2499		-.3642	-.3533
.600							
.650	-.1902		-.1125	-.1271	-.3207		
.700			-.0014				
.725				-.0673	-.2381	-.3365	
.750			.0279				
.760							
.775							
.808	-.0211						
.834							
.850							
.857							
.865	.0470			-.0319	-.1252		-.2940
.900	.0563		.0451				
.905				.0120		-.2865	
.950			.0425				
.955							
.965	.0081						



(883111)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1-T12-S12M23+AT11 UPPER WING

ALPHA(3) = -.210 BETA(4) = 3.810

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	-.1228	-.1367	.2646	.5452	.5864	.5387	.5728
.020				.3117	.4437	.4016	.4016
.025			.1716				
.040		-.0528					
.045			.1102				
.050	-.1414			.1468	.2276	.1943	.2166
.080				.0340			
.085			.0269				
.088		.0115					
.094	-.1577						
.150				-.0824	-.0528	-.0244	.0052
.163		.0050					
.177			-.0728				
.193		.0289					
.229	-.0898						
.250				-.2034	-.1732	-.1749	-.1512
.274			-.1522				
.339		-.1188					
.362	.0177						
.430				-.2410	-.2808		-.2961
.402			-.2565				
.497	.0000						
.590			-.2709	-.3056			
.565			.0000				
.600							
.690							
.700	-.1745					-.3145	
.725				-.1338	-.1252		
.750						.3566	-.3408
.760			-.0556				
.775			.0779	-.0250	-.2691		
.808							
.834	.0874						
.850				.0313	-.1192	-.3011	
.857		.0901					
.865	.1021						
.870	.1039			.0566			-.2656
.905			.0947	-.0575			
.950			.0792			-.2003	
.955			.0795				
.965	.0520						

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DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(883021)

ARC97-716 1A14 Q1-T12-S12N25-A111 UPPER WING

ALPHA(3) = -.210 BETA(5) = 7.740

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP				
Y/BW						
	X/CW					
.000	-.1636	-.0332	.1647	.4651	.4433	.3660
.020				.2633	.3135	.2739
.025			.1055			
.040		-.0220				
.045			.0805			
.050	-.1602			.1315	.1295	.1003
.060				.0326		
.085			.0609			
.086		.0452				
.094	-.1367			-.0871	-.1095	-.0680
.150		.0000				-.0402
.163			-.0376			
.177		.0606				
.193						
.229	.0044			-.1606	-.2061	-.1903
.250						-.1802
.274		-.0772				
.339						
.362	.0597			-.2376	-.2729	-.3090
.400			-.1931			
.497	.0000			-.2660	-.2838	
.550			.0000			-.3097
.565						
.600						
.650						
.700	-.1529			-.1460		
.725				-.1264		
.750					-.3024	-.3421
.760			-.0742	-.0227	-.2025	
.775			.0206			
.806						
.834	-.0016			.0164	-.0992	-.2632
.850			-.0307			
.857						
.865	.0195			.0211		-.2496
.900	-.0022			-.0212		
.905			-.0011	.0194		-.1306
.950			-.0100			
.953						
.965	-.0490					



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(REBUS11)

ARC97-716 1A14 OL+T12-S12N25-AT11 UPPER WING

ALPHA(4) = 3.940 BETA(1) = -7.080

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
.000	.1188	.0671	.4999	.8621	.8499	.7930	.8332	
.020			.2430	.3879	.4742	.4114	.4071	
.040	.0747							
.045		.1337						
.050	.0580			.1682	.1846	.1680	.1816	
.080			.0087	.0093				
.085								
.094	.0387		.0949					
.150								
.163	.0000							
.177								
.193								
.229	.0120							
.250								
.274								
.339								
.352	.0232							
.400								
.402								
.497	.0000							
.550								
.563								
.600								
.650								
.700								
.725								
.750								
.760								
.775								
.808								
.834								
.850								
.857								
.885								
.900	.0730							
.905								
.930								
.953								
.965	.0677							

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 01-112-S12N25+AT11 UPPER WING

(R851A11)

ALPHA(4) = 3.920 BETA(2) = -4.130

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	.0411	-.0079	.4200	.7550	.7596	.7072	.7341
.020			.3241	.4194	.3626	.3583	
.025		-.0030	.1840				
.040			.0844				
.045							
.050	-.0175		.1237	.1481	.1347	.1442	
.060			-.0234				
.065			-.0335				
.066		.0375					
.094	-.0290						
.150		.0200		-.2033	-.1540	-.1118	-.0825
.163							
.177		-.0356	-.1497				
.193							
.229	-.0521			-.2845	-.2810	-.2544	-.2251
.250			-.2201				
.274		-.1969					
.339							
.362	.0004			-.3508	-.3765		-.3528
.400			-.3134				
.432							
.497	.0000			-.3897	-.4077		
.550			.0000				
.565							-.3627
.600							
.650					-.1586		
.700	-.2400			-.3500			
.725						-.4153	-.3769
.750			-.1862	-.3275	-.3851		
.775			-.1202				
.808							
.834	-.1092			-.1836	-.3901	-.4033	
.850			-.0921				
.857							
.869	-.0158						-.3234
.920	.0228			-.1172	-.2638		
.935			-.0500				
.950				-.0874		-.3428	
.953			-.0283				
.965	.0304						



DATE 27 JAN 79 CALCULATED PRESSURE DATA - 1A148 - VOL. 2
 ARC97-716 1A14 Q2+712+512M25+AT11 UPPER WING (RBSJ11)

ALPHA(4) = 3.320 BETA(3) = -.160

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

1/8 W	.2990	.3640	.4270	.5340	.6790	.7800	.8870
X/CW							
.000	-.0179	-.0973	.3200	.6914	.6613	.6172	.6602
.020				.2927	.3698	.3045	.2911
.025			.1347				
.040		-.0842					
.045			.0644				
.050	-.0866			.1071	.1251	.0920	.0912
.060				-.0261			
.085			-.0316				
.096		-.0435					
.094	-.1099			-.2029	-.1610	-.1335	-.1122
.130		.0000					
.163			-.1542				
.177		-.0505					
.193							
.229	-.1125			-.2747	-.2647	-.2680	-.2425
.250			-.2181				
.274		-.2048					
.339				-.3480	-.3794		-.3638
.362	-.0270						
.400			-.2994				
.402				-.3639	-.4070		
.497	.0000						
.530			.0000				
.563							
.603							
.630							
.700	-.2411						
.725				-.3431	-.1517	-.3966	-.3721
.750							
.760		-.1702				-.4219	-.3916
.775				-.2236	-.3834		
.809			-.1115				
.834	-.0731						
.857			-.0749	-.1434	-.3553	-.4096	
.869	.7028						
.900	.0234			-.1321			-.3374
.919			-.0327		-.2512		
.935				-.1208		-.3490	
.955			-.0276				
.989	-.0098						

(R83:011)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ARCS7-710 1A14 Q1+T12+S12N23+AT11 UPPER WING

ALPHA(4) = 3.830 BETA(4) = 3.770

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

X/CW	Y/CW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
.000	-.1271	-.0026	.2371	.9770	.6931	.6342	.6452	
.020			.0854	.1647	.3350	.2768	.2463	
.040		-.1644						
.060			.0218	.0185	.0942	.0719	.0613	
.080	-.1638			-.0883				
.100		-.0472	-.0616					
.120	-.1717							
.140		.0000		-.2285	-.1723	-.1399	-.1234	
.160	.1613							
.180	-.0217							
.200	-.1096			-.2333	-.2600	-.2678	-.2486	
.220		-.2082						
.240	-.1647							
.260				-.3193	-.3673		-.3632	
.280	.0087							
.300		-.2913		-.3373	-.3693			
.320	.0000		.0000					
.340								
.360								
.380	-.8333			-.1715	-.1449			
.400								
.420								
.440								
.460								
.480								
.500								
.520								
.540								
.560								
.580								
.600								
.620								
.640								
.660								
.680								
.700								
.720								
.740								
.760								
.780								
.800								
.820								
.840								
.860								
.880								
.900								
.920								
.940								
.960								
.980								
.0191								



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 C1-T12-S12N25+T11 UPPER WING (833211)

ALPHA(4) = 3.940 BETA(5) = 7.740

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/S	X/CW	CP
.000	-.8397	-.1274
.020		.0766
.025		.3810
.040		.4795
.045		.4855
.050		.4932
.060		.0846
.065		.1839
.070		.1651
.075		.1454
.080		.0938
.085		-.0858
.090		-.0229
.095		-.0201
.100		-.0214
.105		-.0106
.110		-.0196
.115		-.1009
.120		-.0310
.125		-.0557
.130		-.1996
.135		-.2199
.140		-.1893
.145		-.1792
.150		.0000
.155		-.1125
.160		-.0016
.165		-.0113
.170		-.2437
.175		-.2930
.180		-.2979
.185		-.2900
.190		-.1596
.195		-.1302
.200		.0398
.205		-.3090
.210		-.3658
.215		-.3935
.220		-.2475
.225		.0000
.230		-.3196
.235		-.3751
.240		.0000
.245		-.3979
.250		-.3981
.255		-.1752
.260		-.1851
.265		-.4152
.270		-.4105
.275		-.1382
.280		-.1158
.285		-.2887
.290		-.0326
.295		-.0269
.300		-.034
.305		-.0902
.310		-.2086
.315		-.3641
.320		-.0409
.325		-.0090
.330		-.0288
.335		-.0622
.340		-.1685
.345		-.3560
.350		-.0403
.355		-.0502
.360		-.2361
.365		-.0585
.370		-.0674

(1293)

DATE 27 JAN 79

ARC97-716 1A14 Q1+T12+S12N25+AT11 WFFER WING

ALPHA(5) = 0.040 BETA(1) = -7.930

SECTION (1) UPPER WING

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2
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10

000	.1348	.0885	.5621	.9760	.8936	.8137	.8143
020				.3220	.3375	.2162	.1869
040		.0856	.2560				
060			.1133				
080	.0886			.1023	.0393	.0003	-.0192
100				-.0490			
120		.0869	-.0266				
140	.0420			-.2473	-.2292	-.2233	-.2023
160		.0000					
180			-.2189				
200		-.0605					
220	.0214			-.3447	-.3455	-.3334	-.3067
240			-.2666				
260		-.2223					
280	.0131			-.4340	-.4305		-.4061
300			-.3756				
320				-.4227	-.4185		
340	.0000		.0000				-.4008
360					-.3979		
380	-.2633			-.4134			
400			-.2309	-.4035	-.3812	-.3845	-.4005
420			-.2045				
440	-.2198			-.3726	-.3845	-.3982	
460			-.1601				
480	-.1736			-.3397	-.3495		-.3682
500	-.0764		-.1183	-.3018	-.3222		
520			-.1109				
540	.0280						

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 2A+112+512023+AT11 UPPER WING (933511)

ALPHA (1) = 0.020 BETA (2) = -4.195

SECTION 1 (UPPER WING) DEPENDENT VARIABLE CP

Y/BW	2990	3040	4270	5340	6750	7600	8870
X/CW							
.000	.0324	.0031	.4465	.8416	.8222	.7512	.7386
.025			.1455	.2660	.3167	.1882	.1452
.040		-.0130					
.045			.0354				
.050	-.0101			.0565	.0341	-.0110	-.0301
.060				-.0874			
.085			-.0821				
.095		.0110					
.094	-.0320			-.2699	-.2348	-.2285	-.2188
.165		.0000					
.177			-.2537				
.193		-.1082					
.229	-.0437						
.250				-.3497	-.3487	-.3388	-.3204
.274		-.3121					
.339	-.2660						
.362	-.0421			-.4383	-.4327		-.4151
.400			-.3829				
.432				-.4313	-.4234		
.497	.0000		.0000				
.590							-.3988
.600					-.4008		
.650	-.2826			-.4200	-.1911		
.700						-.3785	-.3995
.725			-.2273				
.750				-.4081	-.3874		
.760							
.775			-.1953				
.800							
.824	-.1889			-.3848	-.3914	-.3925	
.850			-.1743				
.877							
.889	-.0960			-.3285			-.3762
.900	-.0447						
.925			-.1545	-.3594			
.950				-.2926			-.3758
.953			-.1456				
.965	.0048						

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ARC97-716 1A14 Q1+T12+S12M25+AT11 UPPER WING

(REB3.22)

ALPHAO(3) = 0.030 BETAO (3) = -.190

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP	
Y/B	W/C		
.2990	.3640	.4270	.5340 .6750 .7630 .8870
.0346	-.1059	.3230	.7433 .7292 .6599 .6422
.023		.1636	.2376 .1304 .0654
.023		.0375	
.043	-.1202		
.030		-.0600	
.083			-.0192 -.0230 -.0375 -.0966
.083			-.1425
.086	-.0726		
.094			
.150	-.1036		
.163			-.2962 -.2634 -.2578 -.2510
.177	.0000		
.193	-.1425		
.229	-.1110		
.250			-.3639 -.3639 -.3578 -.3437
.274		-.2692	
.339	-.2483		
.362	-.0704		
.400			-.4312 -.4392 -.4301
.402		-.3494	
.497	.0000		
.550		-.4418 -.4515	
.563		.0000	
.600			-.4128
.650			-.4171
.700	-.2799		-.1711
.725			-.4212
.750			-.3911 -.4318
.760		-.2087	
.773		-.4372 -.3975	
.808		-.1854	
.834	-.1341		
.850		-.2557 -.3945 -.3968	
.897		-.1623	
.899	-.0361		
.900	-.0227		-.1811 -.3558
.903		-.1247	
.930			-.1443
.953		-.1169	
.959	-.0210		



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TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-710 1A14 6A712+3 2125+711 JETTER W.C.G

DATE 27 JAN 73

ALPHA(9) = 0.050 BETA(4) = 3.940

SECTION (1) JETTER W.C.G DEPENDENT VARIABLE CF

1/8" IN	2.990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.1857	-.3319	.0997	.5769	.7073	.6452	.6263
.020				.0180	.2003	.1056	.0646
.040		-.2476	-.1182				
.060			-.1489				
.080	-.1807			-.1112	-.0958	-.0712	-.1103
.100				-.1924			
.120			-.1706				
.140		-.1442					
.160	-.1707			-.2933	-.2709	-.2622	-.2584
.180		.0000	-.2533				
.200		-.0942					
.220	-.1517			-.3704	-.3623	-.3570	-.3471
.240			-.2656				
.260		-.2136					
.280	-.0344			-.4151	-.4333		-.4272
.300			-.3090				
.320				-.4259	-.4133		
.340	.0000		.0250				-.4749
.360						-.4137	
.380	-.2534			-.2586	-.1705		
.400			-.1846			-.3696	-.4009
.420			-.1032	-.1878	-.3903		
.440							
.460	-.0058		-.0944	-.1516	-.3726	-.3793	
.480							
.500				-.1438			-.3264
.520	.0274						
.540	.0248		-.0177	-.1438	-.3903		
.560				-.1253		-.3470	
.580			-.0229				
.600	-.0008						

TABLED PRESSURE DATA - 1A148 - VOL. 2

09097-718 1A14 01+T12+SIGN23+AT11 10000 10000

ALPHA-AC(5) = 0.0001 BETA(5) = 7.8003

SECTION 11 LOWER WING
OFFENDENT VARIABLE CP[illegible]

ARC97-716 1A14 CR+TIE+SIENES+AT11+ UPPER MINE (RESULTS)

ALPHA0 (1) = -7.000 BETA0 (3) = -.050

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

V/W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CV							
.775				-.0769	-.0937		
.808			.0430				
.834	.0706						
.820				-.0166	-.0663	-.0644	
.857			.0630				
.865	.1061						
.900	.1259		.0374				-.0762
.905			.0905	-.0539			
.930				.0691			-.0572
.955			.1206				
.965	.1233						

ALPHA0 (1) = -8.000 BETA0 (4) = 3.900

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

V/W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CV							
.000	.0294	-.0010	.1969	.4652	.4136	.3391	.3663
.020				.4461	.4990	.4399	.4414
.025		.0291	.2109				
.040			.1900				
.045				.3146	.2691	.2922	.3483
.050	.0148			.2172			
.060			.1446				
.065							
.068		.0799					
.094	-.0030			.0915	.1194	.1632	.1952
.150		.0000					
.165			.0735				
.177		.1142					
.193	.0229						
.229				.0062	.0310	.0532	.0610
.250			.0222				
.274		.0053					
.339	.0959						
.362							
.400				-.0691	-.0644		-.0413
.402			-.0531				
.497	.0000						
.530				-.0799	-.0907		
.565							
.600			.0000				-.0990
.630							-.1022



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(INCHES)

ARC97-716 1A14 CL+712+5125+AT11 UPPER WING

ALPHA(1) = -0.000 BETA(4) = 3.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.8990	.8640	.4270	.5340	.6730	.7600	.8670
X/CW	.700	-.0492		-.0662	-.0646		
.725						-.0985	-.1077
.750			-.0449				
.760				-.0762	-.0921		
.775			.0416				
.809				-.0251	-.0611	-.0683	
.834	.8678		.0732				
.850				.0366			-.0653
.857	.1144				-.0502		
.865	.1137		.0934	.0715	-.0596		
.900							
.905			.1147				
.930							
.953							
.965	.1054						

ALPHA(1) = -0.030 BETA(5) = 7.680

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.8990	.8640	.4270	.5340	.6730	.7600	.8670
X/CW	.000	-.0322	-.0465	.0974	.3402	.2645	.2547
.020				.3363	.4662	.3700	.3570
.025			.1524				
.040		-.0121	.1516	.2529	.2470	.2366	.2264
.045				.1799			
.050	-.0196		.1276				
.060							
.065		.0365					
.066							
.094	-.0406			.0794	.0639	.1266	.1563
.130		.0000	.0645				
.163							
.177		.0596					
.193				.0105	.0126	.0325	.0745
.229	.0136						
.250			.0250				
.274		.0088					
.359							
.362	.0616			-.0645	-.0648		-.0238
.400							
.402			-.0311				
.497	.0000						

DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 380

(083022)

ARC97-716 1A14 CR+T18+312M26+AT11 UPPER WING

ALPHA(1) = -0.030 BETA(1) = 7.880

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.590	.0000	-.0972
.585		-.0984
.580		-.0996
.575		-.1008
.570		-.1020
.565		-.1032
.560		-.1044
.555		-.1056
.550		-.1068
.545		-.1080
.540		-.1092
.535		-.1104
.530		-.1116
.525		-.1128
.520		-.1140
.515		-.1152
.510		-.1164
.505		-.1176
.500		-.1188
.495		-.1200
.490		-.1212
.485		-.1224
.480		-.1236
.475		-.1248
.470		-.1260
.465		-.1272
.460		-.1284
.455		-.1296
.450		-.1308
.445		-.1320
.440		-.1332
.435		-.1344
.430		-.1356
.425		-.1368
.420		-.1380
.415		-.1392
.410		-.1404
.405		-.1416
.400		-.1428
.395		-.1440
.390		-.1452
.385		-.1464
.380		-.1476
.375		-.1488
.370		-.1500
.365		-.1512
.360		-.1524
.355		-.1536
.350		-.1548
.345		-.1560
.340		-.1572
.335		-.1584
.330		-.1596
.325		-.1608
.320		-.1620
.315		-.1632
.310		-.1644
.305		-.1656
.300		-.1668
.295		-.1680
.290		-.1692
.285		-.1704
.280		-.1716
.275		-.1728
.270		-.1740
.265		-.1752
.260		-.1764
.255		-.1776
.250		-.1788
.245		-.1800
.240		-.1812
.235		-.1824
.230		-.1836
.225		-.1848
.220		-.1860
.215		-.1872
.210		-.1884
.205		-.1896
.200		-.1908
.195		-.1920
.190		-.1932
.185		-.1944
.180		-.1956
.175		-.1968
.170		-.1980
.165		-.1992
.160		-.2004
.155		-.2016
.150		-.2028
.145		-.2040
.140		-.2052
.135		-.2064
.130		-.2076
.125		-.2088
.120		-.2100
.115		-.2112
.110		-.2124
.105		-.2136
.100		-.2148
.095		-.2160
.090		-.2172
.085		-.2184
.080		-.2196
.075		-.2208
.070		-.2220
.065		-.2232
.060		-.2244
.055		-.2256
.050		-.2268
.045		-.2280
.040		-.2292
.035		-.2304
.030		-.2316
.025		-.2328
.020		-.2340
.015		-.2352
.010		-.2364
.005		-.2376
.000		-.2388

ALPHA(2) = -4.030 BETA(2) = -7.880

SECTION (2) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.590	.0000	-.0972
.585		-.0984
.580		-.0996
.575		-.1008
.570		-.1020
.565		-.1032
.560		-.1044
.555		-.1056
.550		-.1068
.545		-.1080
.540		-.1092
.535		-.1104
.530		-.1116
.525		-.1128
.520		-.1140
.515		-.1152
.510		-.1164
.505		-.1176
.500		-.1188
.495		-.1200
.490		-.1212
.485		-.1224
.480		-.1236
.475		-.1248
.470		-.1260
.465		-.1272
.460		-.1284
.455		-.1296
.450		-.1308
.445		-.1320
.440		-.1332
.435		-.1344
.430		-.1356
.425		-.1368
.420		-.1380
.415		-.1392
.410		-.1404
.405		-.1416
.400		-.1428
.395		-.1440
.390		-.1452
.385		-.1464
.380		-.1476
.375		-.1488
.370		-.1500
.365		-.1512
.360		-.1524
.355		-.1536
.350		-.1548
.345		-.1560
.340		-.1572
.335		-.1584
.330		-.1596
.325		-.1608
.320		-.1620
.315		-.1632
.310		-.1644
.305		-.1656
.300		-.1668
.295		-.1680
.290		-.1692
.285		-.1704
.280		-.1716
.275		-.1728
.270		-.1740
.265		-.1752
.260		-.1764
.255		-.1776
.250		-.1788
.245		-.1800
.240		-.1812
.235		-.1824
.230		-.1836
.225		-.1848
.220		-.1860
.215		-.1872
.210		-.1884
.205		-.1896
.200		-.1908
.195		-.1920
.190		-.1932
.185		-.1944
.180		-.1956
.175		-.1968
.170		-.1980
.165		-.1992
.160		-.2004
.155		-.2016
.150		-.2028
.145		-.2040
.140		-.2052
.135		-.2064
.130		-.2076
.125		-.2088
.120		-.2100
.115		-.2112
.110		-.2124
.105		-.2136
.100		-.2148
.095		-.2160
.090		-.2172
.085		-.2184
.080		-.2196
.075		-.2208
.070		-.2220
.065		-.2232
.060		-.2244
.055		-.2256
.050		-.2268
.045		-.2280
.040		-.2292
.035		-.2304
.030		-.2316
.025		-.2328
.020		-.2340
.015		-.2352
.010		-.2364
.005		-.2376
.000		-.2388



REBUT.

ARC97-710 1A14 Q1+T12+S12N23+AT11 UPPER WING

ALPHA(2) = -4.030 BETA(1) = -7.900

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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302	.0396	-.1131	-.0976	-.0441
400				

-1097

497 .0000

.950 -.1468 -.1332

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1
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730 -.1316 -.1294

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.779 -.1391 -.1354

-.0346

1934 - 1937 - 1944 - 1970

1.50	1.000	1.000
0.67	0.002	0.002

183 .0294

900	.1101	-.0360	-.0941
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905	.0230	-.1104
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.950 -.0169 -.1067

53.95 **.0537**

cos. **6551.**

[illegible]

1980-1981

ATION (1)UPPER WING

.8900	.3640	.4270	.5340	.6730	.7600	.8870
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[illegible]

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0.50	.023	.369	.3650	.4460
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.050 .2048

.003 **.0031**

.000 .1071

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1.77	-0.0144
1.63	0.0000

193
.0650

(M30482)

ARC97-716 1A14 Q8+712+3125+AT11 UPPER WING

ALPHAO(2) = -4.030 BETA0(2) = -3.900

SECTION (1) UPPER WING DEPENDENT VARIABLE CP
Y/OW .2900 .3640 .4270 .5340 .6730 .7800 .8870

X/CW
.229 .0343
.270 .0566 -.0053 .293 .0771
.274 .0477
.339 -.0519
.362 .0935
.400
.402 -.1234
.497 .0000
.530
.585
.600
.630
.650
.670
.690
.725
.730
.740
.775
.806
.834
.835
.857
.853
.900
.903
.930
.933
.965 .1124
-0.0712
-0.0771
-0.0199
-0.0035
-0.0329
-0.0235
-0.0046
-0.0907
-0.1533
-0.1279
-0.1436
-0.1459
-0.1403
-0.0765
-0.1404
-0.1443
-0.1311

ALPHAO(2) = -4.040 BETA0(2) = -0.060

SECTION (1) UPPER WING DEPENDENT VARIABLE CP
Y/OW .2900 .3640 .4270 .5340 .6730 .7800 .8870

X/CW
.000 .0044 .0205 .2338 .5609 .5870 .5813
.020 .023 .1801
.040 .0230
.045 .1390
.030 .0032
.080
.085
.088
.094
-0.0210
-0.0047
-0.0797
-0.1204
-0.2172
-0.2720
-0.3004
-0.3029
-0.4943
-0.5140
-0.5621
-0.5706



(83122)

DATE 27 JAN 75
 TABULATED PRESSURE DATA - 1A148 - VOL. 2
 ARC97-716 1A14 01-Y12+S12M2+AT11 UPPER WING

ALPHAO(2) = -4.040 BETAO (3) = -.080

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/SW	.8990	.3640	.4270	.5340	.6730	.7800	.8870
Z/CW	.120	.00720		.0036	.0395	.1112	.1728
.163			-.0090				
.177		.0387					
.193							
.229	-.0197			-.0497	-.0533	-.0131	.0372
.230							
.274			-.0390				
.339		-.0569					
.392	.0374						
.400				-.1096	-.1230		-.0940
.402			-.1107				
.497	.0000						
.530				-.1456	-.1451		
.565			.0000				-.1509
.600						-.1547	
.690					-.0677		
.700	-.0810			-.1360			
.725						-.1557	-.1616
.730							
.760			-.0780				
.775				-.1175	-.1362		
.800			-.0154				
.834	.0074			-.0437	-.1336	-.1468	
.850			.0009				
.857							
.865	.0364						-.1367
.900	.0642			-.0260	-.1066		
.903			.0137			-.1205	
.930				-.0030			
.953			.0278				
.965	.0680						

ALPHAO(2) = -4.020 BETAO (4) = 3.830

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/SW	.8990	.3640	.4270	.5340	.6730	.7800	.8870
Z/CW	.000	-.0333	-.0421	.1503	.3904	.3999	.3268
.000					.3066	.2379	.3396
.025			.1258				
.040			-.0308				
.045			.0966				
.050	-.0893			.1926	.2000	.2009	.2646

DATE: 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 384

(RESULTS)

ARC97-246 1A14 Q1+712+312NE5+AT11 UPPER WING

ALPHA(0.2) = -4.050 BETA(0.4) = 3.030

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	3800	3840	4270	5340	6730	7600	8870
1/CM							
.080				.1145			
.085			.0348				
.098		.0035					
.094	-.0457			.0002	.0307	.0736	.1103
.130		.0000					
.193							
.177			-.0079				
.193		.0334					
.225	-.0475						
.270							
.274				-.0517	-.0457	-.0199	.0120
.339				-.0451			
.392							
.400	.0219						
.408				-.1245	-.1170		-.0958
.497							
.530	.0000			-.1120			
.593							
.600							
.630							
.690							
.700	-.0214						
.721							
.750							
.760							
.773							
.808							
.834	-.0108						
.850							
.857							
.863							
.900	.0242						
.905	.0795						
.905							
.930							
.953							
.965							



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC87-716 1A14 QX-T12-S12N5-AT11 UPPER WING (083012)

ALPHA(12) = -4.070 BETA(5) = 7.830

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/CM	.2900	.3640	.4270	.5340	.6730	.7600	.8870
X/CM							
.000	-.0707	-.1149	.0408	.2051	.2855	.2430	.3103
.020				.2298	.2953	.2973	.4102
.025			.0533				
.040		-.0761					
.045			.0565				
.050	-.0680			.1480	.1673	.1704	.3055
.060				.0451			
.085			.8580				
.086		-.0315					
.094	-.0788			.0050	.0250	.0549	.1911
.150		.0000					
.165			-.0029				
.177		.0255					
.193							
.229	-.0531			-.0515	-.0456	-.0389	.0409
.230							
.274		-.0456					
.339	.0139			-.1099	-.1216		-.0688
.362							
.400			-.0979				
.402				-.1377	-.1447		
.497	.0000						
.530							
.565							
.600							
.630							
.700	-.0952			-.1392	-.0961	-.1330	-.1202
.725							
.750							
.760			-.1045				
.775			-.0380	-.1222	-.1378		
.809							
.834	-.0273			-.0684	-.1272	-.1156	
.850			-.0029				
.897							
.905	.0218						
.900	.0379			-.0308			-.1045
.905			.0121	-.0922			
.930				-.0085			-.0843
.955			.0165				
.965	.0129						

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(003012)

ARC97-716 1A14 Q1-T12-302MS+AT11 UPPER MINE

ALPHA(01 3) = -.800 BETA(01 1) = -.7940

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

T/PA	2990	3640	4270	5340	6730	7600	8670
X/CM							
.000	.0993	.1922	.4996	.8919	.9240	.8854	.9354
.020			.6053	.5964	.6228	.6791	
.040		.1366	.3403				
.060			.2451	.3794	.3954	.4087	.4636
.080	.0718		.2274				
.100		.1647	.1366				
.120	.0992			.0236	.1045	.1622	.2200
.140		.0000					
.160	.180		.0166				
.180	.177	.0624					
.200	.0616			-.0719	-.0247	.0142	.0029
.220			-.0742				
.240	.339	-.0737					
.260	.392			-.1557	-.1273		-.0803
.280	.400		.1154				
.300	.402			-.1670	-.1673		
.320	.497	.0000	.0000				-.1409
.340	.800					-.1547	
.360	.800			-.1951	-.0832		
.380	.700	-.0831					
.400	.720		-.1031	-.1727	-.1668		
.420	.750		-.0866				
.440	.750	-.0491		-.1370	-.1731	-.1804	
.460	.830						
.480	.837		-.0866				
.500	.893	-.0181		-.1029			-.1210
.520	.900	.0220		-.0928	-.1601		
.540	.903			-.0779		-.1489	
.560	.920						
.580	.923		-.0413				
.600	.963	.1879					



(REVERSE)

TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CR+112+512M25+AT11 UPPER MINE

DATE 27 JAN 75

ALPHA(3) = -.000 BETA(2) = -4.030

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

V/M	.0000	.3640	.4270	.5340	.6730	.7600	.8670
X/CU							
.000	.0103	.0836	.3932	.7943	.7908	.7263	.7943
.020			.2622	.4776	.6035	.5593	.5749
.040		.0734					
.045			.1796				
.050	.0143			.2910	.3189	.3399	.3809
.060			.0763	.1518			
.085		.0967					
.096	.0015			-.0176	.0006	.1173	.1616
.130		.0000					
.163			-.0361				
.177		.0122					
.193							
.229	-.0041			-.0947	-.0590	-.0154	.0204
.250			-.1090				
.274		-.1073					
.339	.0000			-.1714	-.1444		-.1075
.400			-.1697				
.402							
.497	.0000			-.1903	-.1803		
.530							
.565			.0000				-.1602
.600							
.620							
.700	-.1130			-.2005			
.725					-.0914		
.730			-.1102			-.1776	-.1743
.760				-.1838	-.1827		
.775			-.0913				
.808							
.834	-.0286			-.1407	-.1869	-.1771	
.830							
.837			-.0782				
.865	-.0063						-.1502
.900	.0442			-.1155			
.903			-.0612	-.1727			
.930				-.0966			-.1627
.953			-.0560				
.965	.8997						

(083012)

DATE 27 JAN 75 TABULATED PRELIMINARY DATA - 1A148 - VOL. 2
 (RCS-7) 1A14 01+712+312+5+7111 UPPER WING

ALPHA(3) = -.210 BETA(3) = -.120

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.5900	.3640	.4270	.5340	.6730	.7600	.8870
1/CN							
.000	-.0025	-.0019	.2726	.6370	.6050	.5902	.6280
.020			.1429	.3647	.5355	.4536	.4670
.040		-.0077					
.045			.0714				
.050	-.0037		.2119	.2246	.2595	.2967	
.060			.0936				
.065		.0127					
.066							
.094	-.0476			-.0614	.0115	.0603	.1103
.150		.0000					
.163			-.0969				
.177		-.0321					
.183							
.229	-.0435			-.1249	-.0960	-.0546	-.0066
.250			-.1154				
.274		-.1011					
.339							
.362	-.0300			-.1912	-.1653		-.1269
.400			-.1806				
.402							
.497	.0002			-.1695	-.1976		
.520			.0000				
.563							
.600							
.620							
.700	-.1142			-.1769	-.1019		
.725							
.730							
.760			-.1139				
.775				-.1964	-.1922		
.809			-.0662				
.894	-.0327						
.930			-.0519	-.1124	-.1922	-.1923	
.957							
.983	-.0161						
.990	.0120						
.993				-.0672			-.1724
.995			-.0450		-.1606		
.996				-.0693		-.1794	
.998			-.0336				
.999	.0127						



(RESUME)

ARC97-716 1A14 CR+T12+SI2N2+AT11 UPPER WING

ALPHA(3) = -.210 BETA(4) = 3.680

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP			
V/W		.5340	.6750	.7600	.8670
X/CW					
.000	-.0806	.1398	.5046	.4710	.4417
.020			.2353	.3667	.3499
.025		.0493			
.040	-.0596				
.045		.0076			
.050	-.0946		.0982	.1532	.1900
.060			.0215		
.085		-.0321			
.086	-.0367				
.094	-.0796				
.170		.0000	-.0728	-.0508	.0240
.163					.0662
.177		-.0716			
.193	-.0360				
.229	-.0935				
.230			-.1020	-.1062	-.0773
.274		-.0690			-.0335
.339	-.0973				
.362	-.0338		-.1833	-.1851	-.1361
.400		-.1432			
.402			-.1778	-.1605	
.497	.0000				
.590		.0000			
.565					
.600					
.650					
.700	-.1164		-.1682	-.1056	-.1817
.725					
.730					
.760		-.1057		-.1836	-.1963
.775			-.1438	-.1641	
.808		-.0680			
.834	-.0580				
.850			-.0986	-.1641	-.1757
.857		-.0328			
.865	-.0251				
.900	-.0118		-.0731		-.1758
.905		-.0480	-.1378		
.950			-.0576	-.1845	
.955		-.0360			
.965	-.0068				

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 331

ARC97-716 1A14 CL+712+812N23+AT11 UPPER WING

(RBSU12)

ALPHA(4) = 3.950 BETA(1) = -0.020

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP				
Y/BW	X/CW	.2990	.3640	.4270	.5340	.6730 .7800 .8870
.000	.0874	.1216	.4774	.9803	.9361	.9017 .9404
.020				.5351	.5963	.5696 .5732
.025			.3086			
.040		.1136				
.045			.2166			
.050	.0598			.3170	.3577	.3500 .3603
.060				.1759		
.065			.1156			
.066		.1367				
.094	.0371			-.0071	.0607	.1053 .1547
.120		.0000		-.0393		
.163		.0440				
.177						
.193	.0456			-.0977	-.0568	-.0303 .0136
.229						
.250				-.0964		
.274		.1000				
.339						
.362	.0346			-.1761	-.1521	-.1128
.400						
.402			-.1728			
.497	.0000			+.2045	-.1699	
.530				.0000		
.563						
.600						
.620						
.700	-.1127				-.1762	-.1535
.725				-.2116		
.730						
.760					-.1662	-.1674
.773			-.1275			
.806				-.1845	-.1852	
.834	-.0834		-.1190			
.850						
.857				-.1693	-.1935	-.1833
.865			-.1011			
.900	-.0629					
.900	-.0421			-.1433		-.1430
.903			-.0969	-.1040		
.920				-.1110		-.1632
.933			-.0869			
.965	.0292					

ARC97-716 1A14 CL-712-812128-1711 UPPER WING (083122)

ALPHA(14) = 3.830 BETA(2) = -4.040

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP									
Y/OW		.8980	.8640	.8270	.7940	.7620	.7300	.7000	.6670		
1/CM											
.000	-.0072	.0704	.4069	.8420	.8147	.7626	.6229				
.020			.2411	.4629	.5212	.4920	.4953				
.040		.0493									
.045			.1537								
.050	-.0106			.2576	.2803	.2773	.2996				
.060			.0564	.1314							
.065											
.066		.0667									
.064	-.0004			-.0454	.0212	.0596	.0987				
.130		.0000									
.163			-.0033								
.177		-.0101									
.193											
.229	-.0209			-.1175	-.0665	-.0393	-.0273				
.250											
.274			-.1342								
.339		-.1391									
.342	-.0221										
.400			-.1995	-.1946	-.1673		-.1365				
.402											
.497	.0002										
.520				-.2200	-.1996						
.563			.0000								
.600											
.620											
.700	-.1440			-.2249	-.0995		-.1898				
.725											
.730											
.760			-.1302	-.2112	-.1996		-.2004	-.1671			
.775				-.1446							
.806											
.834	-.1183										
.850			-.1230	-.1633	-.2099	-.2003					
.857											
.861	-.0906			-.1506							
.900	-.0321		-.1237	-.1506	-.2016						
.905											
.920				-.1319							
.933			-.1154								
.963	-.0279										



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-T12-S12N5-A711 UPPER WING (R83J12)

ALPHA(1) = 3.330 BETA(1) = -.070

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.7400	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.0308	-.0019	.2986	.7185	.6929	.6489	.7053
.020			.1422	.3641	.4307	.4082	.4101
.040		-.0164	.0676	.1824	.2074	.2115	.2333
.060	-.0393			.0624			
.080		-.0049					
.100		.0121					
.120	-.0668			-.0800	-.0236	.0156	.0510
.140		.0000					
.160			-.1224				
.180		-.0602					
.200	-.0693			-.1398	-.1184	-.0883	-.0592
.220							
.240		-.1623		-.1664			
.260	-.0721						
.280			-.2150	-.2151	-.1808		-.1579
.300							
.320	.0000			-.2352	-.2163		
.340			.0000				-.1884
.360					-.2029		
.380	-.1448			-.2213	-.0961		
.400						-.2115	-.2011
.420			-.1481	-.1975	-.2108		
.440			-.1318				
.460							
.480	-.1043		-.1123	-.1733	-.2239	-.2133	
.500							
.520							
.540	-.0658			-.1804			-.1928
.560	-.0209			-.1004	-.1803		
.580			-.1086	-.1472		-.2022	
.600			-.1007				
.620							
.640	-.0039						

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003022)

ARC87-716 1A14 C1+712+812M2+AT11 UPPER WING

ALPHA(1) = 3.040 BETAO (4) = 3.000

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP									
V/CM		.8980	.9840	.4870	.5340	.6730	.7800	.8870			
U/CW											
.000	-.1103	-.0834	.1707	.5418	.5649	.9376	.6103				
.020			.0374	.2153	.3321	.3278	.3359				
.040		-.0741									
.060	-.0997		-.0160	.0763	.1324	.1925	.1712				
.080				-.0098							
.100			-.0748								
.120	-.1107										
.140			-.0535								
.160				-.1201	-.0677	-.0211	.0086				
.180			.0000								
.200				-.1572							
.220	-.1046		-.1036								
.240				-.1711							
.260			-.1430								
.280	-.0610										
.300				-.2209	-.2044		-.1735				
.320			-.1831								
.340				-.2226	-.2242						
.360	.0000		.0000								
.380											
.400				-.1977	-.1086	-.2149		-.1947			
.420	-.1408										
.440											
.460				-.1814							
.480				-.1671	-.2115						
.500											
.520				-.1077							
.540	-.0800										
.560				-.1397	-.2127	-.2211					
.580											
.600				-.0949							
.620	-.0501										
.640	-.0392			-.1265							
.660				-.0954	-.1609		-.2028				
.680				-.1125							
.700				-.0874							
.720	-.0399										



(R03U02)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR+712+812NES+AT11 UPPER MINE

DATE 27 JAN 75

ALPHA01 (4) = 3.940 BETA0 (5) = 7.820

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

V/BW	.2990	.3040	.4270	.5340	.6730	.7600	.8870
X/CV							
.000	-.1324	-.1701	-.0066	.2861	.4436	.5955	.6418
.020				.0263	.2134	.2796	.2608
.025			-.0647				
.040		-.1533					
.045			-.0853				
.050	-.1167			-.0213	.0480	.1131	.1296
.060				-.0718			
.085			-.0851				
.086		-.1167					
.094	-.1177						
.130		.0000		-.1256	-.1051	-.0366	-.0117
.163							
.177		-.0735		-.1092			
.193							
.229	-.1218						
.230				-.1372	-.1021	-.1136	-.0967
.274			-.1233				
.339		-.1136					
.362	-.0648						
.400				-.1863	-.1926		-.1763
.402			-.1611				
.497	.0000			-.1987	-.2079		
.530							
.583							
.600				.0000			
.630						-.2037	-.1956
.700	-.1332						
.729				-.1767			
.730						-.2082	-.2087
.760			-.1165				
.773				-.1369	-.1854		
.808			-.0922				
.834	-.0704			-.0978	-.1792	-.2060	
.830							
.857			-.0783				
.883	-.0470			-.0798			-.1829
.900	-.0414						
.903			-.0673	-.1232			
.930				-.0683		-.1879	
.953			-.0560				
.969	-.0402						

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-718 1A14 CR+T12+S12NE5+AT11 UPPER WING (083002)

ALPHA01 8) = 0.050 BETA0 (1) = -8.070

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	.0023	.0091	.5337	1.0360	1.0070	.9204	.9673
.020			.4815	.5602	.4763	.4563	
.025		.2844					
.040		.0817	.1828				
.045				.2746	.2634	.2557	.2443
.050	.0327		.1367				
.060		.0770					
.065		.1114					
.066							
.084	.0411			-.0376	.0098	.0332	.0374
.130	.0003						
.165		-.0730					
.177	.0208						
.193							
.229	.0203			-.1191	-.0968	-.0774	-.0498
.250		-.1809					
.274							
.339	-.1056						
.362	.0440			-.1873	-.1767		-.1507
.400		-.1820					
.422				-.2244	-.2006		
.497	.0000						
.530		.0000					
.565							
.600							-.1704
.620							
.700	-.1221			-.2561	-.0941		
.723							
.730							
.760		-.1203		-.2078	-.2022	-.2030	-.1872
.775							
.808		-.1496					
.834	-.1001						
.850				-.1843	-.2133	-.2035	
.857		-.1310					
.863	-.0796						-.1628
.900	-.0840			-.1699	-.2048		
.903		-.1403					
.920				-.1465		-.1856	
.933		-.1366					
.963	-.0240						



(0031082)

ARC97-719 1A14 CL+718-312M2-A711 UPPER WING

ALPHA(1) = 0.110 BETA(1) = 7.940

SECTION 1 UPPER WING DEPENDENT VARIABLE CP

Y/W	.8000	.8040	.8070	.8340	.8730	.7600	.8870
W/CV							
.000	-.1836	-.1768	-.0318	.8770	.9208	.7072	.7038
.020				.0014	.1988	-.2008	.2007
.025			-.1115				
.040		-.1803					
.045			-.1303				
.250	-.1232			-.0704	.0099	.0993	.1023
.060				-.1120			
.085			-.1478				
.096		-.1284					
.094	-.1252						
.150					-.1780	-.1219	-.0744
.185		.0000					
.177		-.1127					
.193			-.1720				
.229	-.1327						
.250				-.1749	-.1853	-.1503	-.1271
.274			-.1864				
.359		-.1303					
.388	-.0798						
.400				-.2325	-.2292		-.2005
.402			-.1732				
.497	.0000						
.550				-.2205	-.2482		
.565			.0000				
.600							-.2209
.650						-.2384	
.700	-.1479			-.1900			
.725					-.1114		
.750						-.2449	-.2325
.760			-.1199				
.775			-.1759	-.2233			
.809			-.0985				
.834	-.0674						
.850			-.1378	-.2213	-.2480		
.857		-.0844					
.885	-.0838						
.900	-.0580						-.2229
.904			-.1179				
.920		-.0772	-.1911				
.935			-.0971			-.2344	
.965		-.0659					



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(085113) (18 JAN 74)

UPPER WING

ARC57-71.6 1A14 CL+71.8+212N3

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
RUDDER = .000 SPOILER = .000

REFERENCE DATA

REF = 9.4210 34.77. XWIP = 29.5600 INCHES
LREF = 30.7090 INCHES YWIP = .0000 INCHES
BRF = 30.7090 INCHES ZWIP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -8.030

DEPENDENT VARIABLE CP

SECTION (1) UPPER WING

Y/BW	.2990	.3040	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	.1991	.1102	.4034	.7239	.6366	.5637	.6355
.020			.4337	.6937	.6708	.6626	.7154
.040		.1304					
.045			.3765	.4779	.4688	.5092	.5366
.050	.1885			.3306			
.060			.2921				
.065			.2147				
.086	.1001			.1095	.1424	.2154	.2636
.094		.0000					
.130			.2117				
.163							
.177							
.193	.1128			-.0312	-.0056	.0295	.0486
.228							
.230			.0270				
.274							
.339	.1806		.0276				
.362				-.1960	-.1516		-.1486
.400							
.402			-.1170				
.497	.0000			-.2017	-.2000		
.530							
.565							
.600							
.630							
.700	-.0481						
.725				-.0364	-.0792		
.730							
.760			.1141				
.775				.1366	-.1666		
.808			.2456				
.834	.1836						
.850				.1630	-.0074	-.1835	
.857			.2568				
.865	.2951						
.900	.2903			.2030			-.1400
.903			.2673		.0402		

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

00031033

UPPER MINE

ARC97-716 1A14 CR-712-SUSMS

ALPHA(1) = -7.930 BETA(1) = -8.030

DEPENDENT VARIABLE CP

SECTION (1) UPPER MINE

V/W	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CM				.2216		-.0981	
.930				.2958			
.953							
.965							
.9230							

ALPHA(1) = -7.930 BETA(2) = -5.710

DEPENDENT VARIABLE CP

SECTION (1) UPPER MINE

V/W	.2990	.3640	.4370	.5340	.6730	.7600	.8870
X/CM							
.000	.0984	.0346	.2778	.6023	.5263	.4546	.4985
.020			.3920	.6601	.6019	.6037	.6260
.025							
.040		.0847					
.045			.3045	.4215	.4436	.4546	.4713
.050	.0422			.2629			
.060			.2362				
.065							
.066		.1561					
.067	.0187			.0967	.1300	.1851	.2207
.130		.0000					
.163			.0961				
.177		.1769					
.193							
.229	.0771			-.0407	-.0165	-.0080	.0312
.250			.0005				
.274		-.0046					
.339							
.362	.1446			-.1446	-.1600		-.1569
.400		-.1255					
.402	.0000						
.497				.1099	-.2011		
.530			.0000				
.565							
.600							
.630							
.700	-.0618						
.721				-.0499			
.730					-.0823		
.760						-.2146	-.2340
.775			.0580				
.808				.1185	-.1684		
.834		.1976					
.890	.1277						
.930				.1679	-.0037	-.1884	



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RECURS)

UPPER WING

ARC57-716 1A14 CL+T18+812M25

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2900	.3640	.4370	.5340	.6730	.7800	.8870
X/C							
.097			.1888				
.065	.1987						
.000	.1900		.1844				-.1599
.023		.1911		.0498			
.020			.1905			-.0816	
.053		.1787					
.065	.1370						

ALPHA(1) = -7.940 BETA(3) = .193

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2900	.3640	.4370	.5340	.6730	.7800	.8870
X/C							
.000	.0037	-.0396	.1829	.4418	.3724	.3253	.3676
.020				.5315	.4684	.5122	.5338
.025			.2533				
.040		.0226					
.045			.2630				
.050	-.0200			.3765	.3677	.3919	.4120
.080				.2600			
.085			.2327				
.088		.1088					
.094	-.0228			.0916	.1036	.1566	.1885
.120		.0000					
.177		.1983	.0933				
.193							
.229	.0335			-.0394	-.0822	.0018	.0190
.250							
.274			.0048				
.358		-.0117					
.382	.1177						
.400			-.1299	-.1415	-.1366		-.1596
.402							
.497	.0000						
.590				-.1935	-.1949		
.565			.0000				
.600							
.650						-.2162	-.2427
.700	-.0882			-.1087			
.723							
.730							
.760							

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DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

003133

UPPER WING

ARC37-716 1A14 CR+712+812N3

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW	.778			.1364	-.1134		
.808		.0596					
.834	.1140			.1705	.0208	-.1868	
.850			.1025				
.857							
.885	.1643			.1702	.1053	-.1565	
.900	.1616						
.905		.1556		.1644	-.0022		
.920			.1359				
.933							
.965	.0976						

ALPHA(1) = -7.960 BETA(4) = 4.820

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW	.003	-.0333	-.0382	.1214	.3447	.2638	.2770
.020				.4659	.4337	.5186	.5122
.025			.2264				
.040		.0124					
.045			.2043				
.050	-.0717			.3173	.3930	.4111	.4130
.060			.1674	.2258			
.065		.0697					
.068							
.094	-.0676			.0866	.1659	.1884	.2132
.130		.0000					
.163			.0647				
.177		.1321					
.193	.0240			-.0370	.0368	.0372	.0439
.229							
.230							
.274			.0023				
.339		-.0322					
.362	.0631			-.1027	-.0963	-.1276	
.400			-.1199				
.402							
.497	.0000			-.1340	-.1471		
.520							
.565			.0000				
.600							
.630							-.2069
							-.1741



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083033)

UPPER WING

ARC57-716 1A14 Q1+T18+818N25

ALPHAO(1) = -7.980 BETAO(4) = 4.220

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2950	.3640	.4270
.5340	.6750	.7600
.8670		
.0000	.0743	.0900
.0729		.1598
.0790		.1849
.0760	.0853	.2036
.0773	.2123	.0070
.0808		
.0834	.1456	.2056
.0850		.1157
.0857	.1834	-.0232
.0865		
.0900	.2090	.1915
.0907	.2074	.2126
.0905		.0814
.0920	.1790	
.0935	.1647	
.0963	.1439	

ALPHAO(1) = -7.980 BETAO(8) = 8.150

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP
.2950	.3640	.4270
.5340	.6750	.7600
.8670		
.0000	.0743	.0900
.0729		.1598
.0790		.1849
.0760	.0853	.2036
.0773	.2123	.0070
.0808		
.0834	.1456	.2056
.0850		.1157
.0857	.1834	-.0232
.0865		
.0900	.2090	.1915
.0907	.2074	.2126
.0905		.0814
.0920	.1790	
.0935	.1647	
.0963	.1439	

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 346

00031331

UPPER WING

ALPHA(1) = -7.000 BETA(1) = 0.150

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/B	.5000	.5640	.6270	.6940	.7600	.8270	.8870
X/CW							
.550				-.1130	-.1892		
.593				.0000			
.600							-.1765
.650					-.1555		
.700	-.0262			-.0903			
.725				.0756			
.750							-.1336
.760							-.1784
.775			.1077				
.808			.1885				
.834	.1056		.8004	.1015			
.850							
.857			.1446				
.865	.1983						
.900	.1613		.1544				-.0751
.905			.1269	.8044			
.950				.1383	.1734		
.953			.1259				
.965	.1122						

ALPHA(2) = -4.000 BETA(2) = -7.970

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/B	.5500	.5640	.6270	.6940	.7600	.8270	.8870
X/CW							
.600	.1724	.0620	.4383	.7483	.7053	.6301	.6670
.625				.5777	.6031	.5855	.6281
.640		.1056	.3630				
.645			.2836				
.650	.0847			.3482	.3795	.3928	.4200
.660				.2050			
.685			.1644				
.696		.1617					
.694	.0862						
.150				.0061	.0331	.1000	.1627
.165							
.177		.0000	.0352				
.195		.1093					
.209	.0580						
.250							
.276							
.359							



DATE 27 JAN 71 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0834133

UPPER 1116

ARC97-716 1A14 OR-T12-S12NES

ALPHAO (2) = -4.020 BETAO (1) = -7.970

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CV							
.302	.0972			-.2405	-.2407		-.2150
.400			-.1803				
.402							
.497	.0000						
.590				-.2931	-.2804		
.585			.0000				
.600							-.2659
.630					-.2633		
.700	-.1240				-.1802		
.725				-.2331		-.3119	-.3009
.750							
.760			.0096		-.0564	-.2632	
.775			.1146				
.808							
.834	.0969			.0262	-.1960	-.2773	
.850			.1523				
.857							
.885	.2116			.0509			-.2201
.900	.2264				-.0456		
.905			.1865				
.930				.0685		-.2214	
.955			.1961				
.965	.1654						

ALPHAO (2) = -4.020 BETAO (2) = -3.670

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CV							
.000	.0842	.0195	.3103	.6119	.5747	.5080	.5576
.020				.5186	.5425	.5333	.5923
.025			.2977				
.040		.0530					
.045			.2516				
.050	.0108			.3169	.2470	.3614	.3703
.060				.1621			
.085			.1391				
.098		.1119					
.094	-.0221						
.130		.0000		.0066	.0325	.0963	.1340
.165			.0257				
.177							
.195		.0619					

(083103)

UPPER WING

ARC37-71.6 1A14 CL+712+512MS

ALPHA(2) = -4.020 BETA(2) = -3.070

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/BW .8950 .9840 .4270 .5340 .6730 .7600 .8670

X/CW

.829	.0132					
.830						
.874						
.836						
.892						
.400						
.402						
.497						
.530						
.568						
.600						
.630						
.700						
.725						
.730						
.760						
.775						
.808						
.834						
.850						
.857						
.885						
.900						
.905						
.920						
.953						
.965						

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/BW .8950 .9840 .4270 .5340 .6730 .7600 .8670

X/CW

.000						
.020						
.025						
.040						
.045						
.050						
.090						
.095						
.098						
.094						



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83U33)

UPPER WING

ARC97-715 1A14 Q1-T12-S12N85

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BN .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CN

.120 .163 .177 .193 .229 .270 .274

.339 .362 .400 .402 .497 .530 .563

.600 .630 .700 .725 .730 .775 .806

.834 .850 .857 .869 .900 .903 .920

.933 .965 .985 .985 .985 .985 .985

.985 .985 .985 .985 .985 .985 .985

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UPPER WING

00030537

ALPHAO1 21 = -4.030 BETAO (4) = 4.120

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BL .8760 .3640 .4270 .5340 .6730 .7600 .8670

X/CM

.080	.1435					
.085	.0794					
.086	.0337					
.094	-.1375					
.120		-.0174	.0632	.0651	.1205	
.163						
.177		-.0109				
.183		.0521				
.229	-.0364					
.230						
.274		-.0782				
.339		-.1218	-.0594	-.0622	-.0525	
.362	.0331					
.400		-.1543	-.1826		-.2129	
.402		-.1865				
.497	.0000					
.530		-.1977	-.2095			
.585		.0000				
.600						
.620				-.2549		
.700	-.1400		-.1083			
.723						
.750			-.0343		-.2355	-.2699
.760						
.775		.0001				
.809		.1435				
.834	.0782					
.857						
.863	.1493		.1365	-.0175	-.2009	
.900	.1413					
.905			.1355			-.1941
.920		.1296	.0563			
.925		.1372			-.0495	
.965	.0927	.1167				



(RECURS)

TABULATED PRESSURE DATA - 1A14B - VOL. 2

UPPER WING

DATE 27 JAN 78

ARC07-716 1A14 Q1+712+812M23

ALPHA(12) = -4.000 BETA(12) = 7.000

DEPENDENT VARIABLE CP

SECTION (1) UPPER WING

V/DW .8950 .3640 .4270 .5340 .6730 .7803 .8870

W/CW

.000	-.1184	-.0434	.1284	.4127	.2903	.2993	.3099
.020				.3721	.3336	.4019	.3649
.025			.1893				
.040		-.0341	.1809				
.045				.2328	.2114	.2813	.2702
.070	-.0960			.1575			
.090			.1190				
.095							
.096		-.0323					
.094	-.0749						
.130				.0248	-.0028	.0703	.0878
.163		.0000	.0328				
.177		.0691					
.183							
.229	.0018			-.0904	-.0963	-.0833	-.0823
.230				-.0266			
.274							
.339	-.0417						
.382	.0833			-.1713	-.1766		-.2080
.400			-.1438				
.402							
.497	.0000			-.8081	-.8096		
.530			.0000				
.585							-.2618
.600					-.2370		
.630					-.1436		
.700	-.1072			-.0837		-.8207	-.8715
.723			-.0169				
.730				.0732	-.1131		
.780			.0837				
.773							
.808							
.834	.0312		.1116	.0078	-.1343		
.830			.0874				
.857							
.885	.0360			.0897			-.1832
.900	.0425		.0818		.1128		
.903				.0771		-.0170	
.930							
.953			.0488				
.985	.0003						

DATE 87 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083053)

UPPER WING

ARC97-716 1A14 Q1-T12-S12MS

ALPHA(1) = -.180 BETA(1) = -.0000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/CM	.8900	.3640	.4270	.5340	.6730	.7600	.8870
W/CW							
.000	.1334	.0731	.4891	.7696	.7775	.7076	.7613
.020				.4676	.5502	.5011	.5367
.025			.3255				
.040		.0756					
.045			.2120				
.050	.0906			.2597	.2694	.3016	.3134
.060				.1065			
.065			.0676				
.068		.1261					
.094	.0648						
.120				-.0517	-.0498	.0087	.0629
.163		.0000					
.177		.0471	-.0648				
.193							
.229	.0343			-.2063	-.1959	-.1558	-.1105
.274		-.1374	-.1574				
.329	.0392			-.2997	-.3074		-.2743
.362			-.2533				
.400	.0000						
.402			.0700	.3365	-.3412		-.2963
.497						-.3256	
.520					-.1411		
.530	-.1722			-.2635			
.725						-.3614	-.3200
.730							
.760			-.1019	-.2000	-.3200		
.775			.0099				
.808							
.834	-.8072			-.0469	-.3216	-.3345	
.920							
.937			.0396				
.965	.1844			-.0032			-.2772
.970	.1622						
.985		.0927	-.1405				
.990			.0134		-.2227		
.993		.1299					
.995	.1837						



DATE 27 JAN 75

TABLE 1. CD PRESSURE DATA - 1A148 - VOL. 2

PAGE 303

ALPHA(1:3) = -.170 BETA(1:2) = -3.990

UPPER WING

(W3U33)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/BW	.8990	.8640	.8270	.7940	.7600	.7260	.6920
Z/CW							
.000	.0003	.0047	.3729	.6074	.6013	.6091	.6064
.020			.4326	.5043	.4657	.4610	
.040		.0034	.2565				
.060			.1632	.2162	.2064	.2773	.2779
.080	.0009			.0900			
.100			.0546				
.120		.0008					
.140	.0191			.0030	-.0590	.0000	.0424
.160		.0000					
.180		.0253		-.0008			
.200	.0314						
.220							
.240							
.260							
.280							
.300							
.320							
.340							
.360							
.380							
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
1.000							

0031031

UPPER WING

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+718+512823

ALPHA(3) = -.100 BETA(3) = -.100

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/M	.2990	.3040	.4270	.5340	.6730	.7600	.8870
X/CM							
.000	-.0183	-.0646	.2951	.6171	.5696	.5309	.5646
.020			.4096	.4482	.4096	.4231	
.025			.2017				
.040		-.0241					
.043			.1375				
.050	-.0541			.2104	.2549	.2513	.2546
.060				.0911			
.065			.0564				
.066		.0331					
.094	-.0661			-.0775	-.0669	-.0206	.0153
.120							
.165		.0000					
.177			-.0614				
.195		.0116					
.229	-.0501			-.1900	-.1921	-.1767	-.1493
.230							
.274			-.1471				
.332		-.1275					
.342	.0079			-.2931	-.3009		-.2978
.400			-.2432				
.402							
.497	.0000			-.3206	-.3483		
.590			.0000				
.595							
.600							-.3142
.620					-.1257		
.700	-.1869			-.2414			
.725						-.3671	-.3519
.730			-.0663				
.760				-.1875	-.3159		
.775			.0028				
.808							
.834	-.0172			-.0798	-.2255	-.3349	
.850			.0299				
.857							
.863	.0337						-.2968
.900	.0542			-.0342			
.905			.0483		-.1287		
.920				.0035		-.2824	
.957			.0543				
.985	.0159						



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(003UR3)

UPPER MING

ARC97-716 1A14 Q1+7182+312M23

ALPHA01 3) = -.800 BETA0 (4) = 4.120

SECTION (1) UPPER MING DEPENDENT VARIABLE CP

V/W	.2990	.3040	.4270	.5340	.6730	.7800	.8870
1/CM							
.000	-.1018	-.1154	.2560	.3273	.5991	.5192	.5616
.020				.3233	.4569	.4031	.4108
.040		-.0914		.1631			
.045			.1179				
.070	-.1198			.1500	.2433	.2366	.2304
.090			.0407				
.093			.0328				
.096		.0092					
.094	-.1504			-.0807	-.0514	-.0098	.0196
.120		.0000					
.163		.0000	-.0634				
.177		.0201					
.193	-.0709						
.229				-.1579	-.1694	-.1628	-.1411
.274		-.1196	-.1206				
.339							
.392	.0128			-.2506	-.2734		-.2970
.400			-.2267				
.402	.0000			-.2637	-.2933		
.497			.0000				
.520						-.3006	
.600					-.3136		
.620	-.1524			-.1016			
.700					-.3274	-.3381	
.725			-.0206				
.730				-.0067	-.2502		
.760			.0830				
.775							
.808			.0906	.0473	-.0936	-.2281	
.834	.0376						
.836							
.837							
.883	.1033						-.2962
.900	.1059		.0722	-.0377			
.903			.0883				
.920			.0597			-.1545	
.938			.0843				
.983	.0914						

(003483)

UPPER MINE

ALPHA(1) = -.212 BETA(1) = 8.090

SECTION (1) UPPER MINE DEPENDENT VARIABLE CP

Y/CM	.8990	.3642	.4270	.5340	.6730	.7800	.8870
X/CM							
.000	-.2110	-.0751	.1345	.4244	.3994	.3931	.4054
.020				.2632	.3089	.3177	.3014
.025			.0992				
.040		+.0501					
.045			.0736				
.050	-.1421			.1253	.1412	.1654	.1533
.060				.0370			
.085			.0350				
.096		.0021					
.094	-.1399						
.150				-.0601	-.1030	-.0560	-.0302
.163		.0000					
.177			-.0451				
.193		.0470					
.229	-.0141						
.230				-.1560	-.1871	-.1810	-.1697
.274			-.0937				
.339		-.0863					
.382	.0450						
.400				-.2364	-.2610		-.3015
.402			-.1864				
.497	.0000						
.590				-.2619	-.2783		
.585			.0000				
.600						-.3048	
.620					-.3184		
.700	-.1807			-.1179	-.1482		
.725							
.730			-.0727			-.3004	-.3415
.775			.0337	-.0180	-.2071		
.806							
.834	-.0009						
.830				.0209	-.1010	-.2804	
.857			.0126				
.865	.0173						
.900	.0004			.0878			-.2376
.905			.0093	-.0219			
.930				.0256		-.1335	
.935		.0036					
.965	-.0419						



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083023)

UPPER WING

ARC97-716 1A14 01+718+512N25

ALPHA(4) = 3.930 BETA(1) = -0.070

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/W .2990 .3640 .4270 .5340 .6750 .7600 .8970

X/CW

.000	.1106	.0704	.5053	.8572	.8459	.7951	.8324
.020				.3913	.4794	.4077	.4130
.025			.2516				
.040		.0748					
.045			.1335				
.050	.0661			.1627	.1681	.1939	.1884
.060				.0096			
.065			-.0031				
.066		.1004					
.094	.0356						
.150		.0000		-.1807	-.1365	-.0953	-.0533
.163			-.1510				
.177		-.0127					
.193	.0148						
.229				-.2940	-.2725	-.2406	-.2018
.250			-.2286				
.274		-.1923					
.339	.0242			-.3722	-.3773		-.3376
.342			-.3206				
.402	.0000						
.457			.0000	.3991	-.4126		
.550							
.585							
.600							
.630							
.700	-.2226			.3683	-.1801		-.3468
.723							
.730							
.770							
.773							
.806							
.834							
.850							
.857							
.885							
.900							
.903							
.920							
.933							
.963							

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083013)

UPPER WING

ARC37-756 1A14 CR+712+512NES

ALPHA(1,4) = 3.910 BETA(1,2) = -4.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8980	.3840	.4270	.5940	.6730	.7600	.8870
X/CV							
.000	.0545	-.0140	.4117	.1996	.7476	.7001	.7308
.020				.3257	.4196	.3975	.3596
.025			.1949				
.040		-.0123					
.045			.0883				
.070	-.0217			.1149	.1513	.1598	.1445
.080				-.0249			
.085			-.0213				
.086		.0339					
.094	-.0331			-.8034	-.1329	-.1096	-.0763
.130		.0000					
.163			-.1517				
.177		-.0399					
.193							
.229	-.0726			-.2914	-.2767	-.2530	-.2213
.230			-.2175				
.274		-.1876					
.339							
.342	-.0020			-.3505	-.3743		-.3516
.400			-.3121				
.402				-.3914	-.4082		
.497	.0000						
.570			.0000				
.603							
.600							
.630							
.700	-.2484			-.3498	-.1535		
.723						-.4166	-.3837
.730							
.760			-.1680	-.3276	-.3672		
.773			-.1162				
.806				-.1670	-.3879	-.4061	
.834	-.1136						
.850			-.0920				
.857							
.893	-.0166						
.900	.0809			-.1166	-.2547		-.3341
.905			-.0320				
.930				-.0690		-.3211	
.953			-.0061				
.963	.0304						



DATE 27 JAN 72 TABULATED PRESSURE DATA - 1A140 - VOL. 2
 ALPHA(1) = 3.910 BETA(3) = -.190
 SECTION (1) UPPER WING
 ARCU-716 1A14 OI+TIB+SIENES UPPER WING

083033

DEPENDENT VARIABLE CP

Y/OW	8990	3640	4870	5340	6730	7800	8870
X/CW							
.000	-.0186	-.0933	.3279	.6764	.6323	.6136	.6439
.020			.1479	.2932	.3660	.3044	.2901
.040		-.0817					
.045			.0641				
.070	-.0808			.0959	.1297	.1182	.0965
.080				-.0251			
.085			-.0257				
.098		-.0347					
.094	-.1092			-.0222	-.1598	-.1266	-.1082
.130		.0000					
.163			-.1487				
.177		-.0539					
.193							
.229	-.1099			-.2737	-.2634	-.2642	-.2395
.230			-.2077				
.274		-.1944					
.339				-.3477	-.3776		-.3616
.362	-.0316		-.2965				
.400				-.3642	-.4072		
.457	.0000		.0000				-.3741
.530					-.3935		
.583					-.1539		
.600				-.3281			
.630	-.2380					-.4205	-.3647
.725							
.730			-.1510				
.780				-.2135	-.3616		
.779			-.1610				
.808							
.834	-.0772			-.1402	-.3480	-.4066	
.830			-.0669				
.857							
.863	.0037			-.1315			-.3404
.900	.0356				-.2329		
.903			-.0867				
.930				-.1226		-.3908	
.953			.0013				
.965	-.0072						

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DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A146 - VOL. 2

(MS3083)

UPPER WING

ARCS 7-7.6 1A14 Q1+712+312N23

ALPHA(4) = 3.928 BETA(4) = 4.080

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/CM	.2990	.3640	.4270	.5340	.6730	.7600	.8870
X/CM							
.000	-.1116	-.2641	.2271	.5309	.8648	.6235	.6346
.020	.0223	.0963	.1910	.3530	.3011	.2662	
.040		-.1647	.0235	.0371	.1153	.1215	.0856
.060	.043	-.1648		-.0577			
.080	.060		-.0581				
.100	.085						
.120	.086						
.140	.094	-.1644					
.160	.130			-.1740	-.1529	-.1247	-.1079
.180	.163		.0000				
.200	.177		-.1517				
.220	.193						
.240	.229	1182					
.260	.274			-.2201	-.2682	-.2551	-.2370
.280	.359		-.2017				
.300	.362	-.1674					
.320	.400						
.340	.402		-.2570	-.3103	-.3320		-.3571
.360	.497	.0000					
.380	.530			-.3302	-.3603		
.400	.565		.0000				
.420	.600						
.440	.630						
.460	.700	-.2008					
.480	.729			-.1438	-.1429	-.3798	
.500	.730						
.520	.760		-.0984				
.540	.779		-.0118	-.0921	-.3294		
.560	.808						
.580	.834	.0207					
.600	.850			-.0805	-.2430	-.3852	
.620	.857		.0194				
.640	.885	.0881					
.660	.900	.0700		-.0569			-.3367
.680	.909		.0391	-.1479			
.700	.920			-.0198	-.2441		
.720	.933		.0400				
.740	.965	.0118					



(R83U33)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-T1E-S1E25 UPPER WING

ALPHA(4) = 3.830 BETA(5) = 0.090

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.2364	-.1680	.0804	.3872	.4536	.4543	.4766
.020				.1136	.2122	.1888	.1725
.025			.0096				
.040		-.1293					
.045			-.0157				
.050	-.1791			-.0063	.0238	.0365	.0064
.060				-.0742			
.085			-.0486				
.088		-.0755					
.094	-.1834						
.130				-.1715	-.1671	-.1662	-.1617
.183		.0000					
.177			-.1141				
.193		-.0064					
.229	-.0415						
.230				-.2420	-.2739	-.2809	-.2724
.274			.1396				
.339		-.1350					
.382	.0182						
.400			-.2470	-.3027	-.3523		-.3814
.402							
.497	.0000			-.3139	-.3602		
.530			.0000				
.585							
.600							
.620						-.3833	-.3853
.700	-.2182			-.1973	-.1722		
.725							
.730			-.1200			-.3986	-.4016
.760				-.1809	-.2898		
.773			-.0266				
.808							
.834	-.0307			-.0606	-.1974	-.3467	
.850			-.0384				
.857							
.883	-.0068			-.0628			-.3437
.900	-.0112				-.1956		
.903			-.0337				
.930				-.0908		-.2237	
.935			-.0423				
.989	-.0889						

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003123)

UPPER WING

ARC97-716 1A14 CL-T12-S12M23

ALPHA(1) = 0.040 BETA(1) = -0.170

SECTION (1) UPPER WING	DEPENDENT VARIABLE CP									
Y/BW	.2900	.3640	.4270	.5340	.6730	.7600	.8670			
X/CW										
.000	.1303	.0036	.0023	.0999	.0039	.0234	.0244			
.020				.5371	.5671	.2337	.2164			
.025			.2326							
.040		.0794								
.045			.1216							
.070	.0744			.1070	.0664	.0425	.0002			
.080				-.0437						
.085			-.0388							
.096		.0947								
.094	.0472									
.120				-.2399	-.2137	-.2102	-.1814			
.163		.0000								
.177			-.2134							
.193		-.0534								
.229	.0877									
.230				-.3418	-.3364	-.3231	-.2508			
.274		-.2207								
.339										
.382	.0185									
.400				-.4270	-.4216		-.3630			
.402			-.3674							
.487	.0000									
.520				-.4164	-.4023					
.585				.0000						
.600										
.620										
.700	-.2600				-.2034		-.3776			
.725				-.4134						
.750										
.760				-.2563						
.775				-.3677	-.3632		-.3567	-.3663		
.808			-.2101							
.834	-.2134									
.850				-.3555	-.3675	-.3763				
.857			-.1376							
.885	-.1376									
.900	-.0001			-.2180						
.909			-.1161		-.3337		-.3415			
.950				-.2294						
.953			-.0642				-.3633			
.983	.0267									



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083023)

UPPER WING

ARC97-716 1A14 Q1-T12-S12NES

ALPHA(1) = 0.020 BETA(1) = -4.120

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

1/8W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
1/CM							
.000	.0512	.0003	.4431	.0230	.8107	.7411	.7401
.020				.2680	.3291	.1979	.1636
.025			.1602				
.040		-.0099					
.045			.0373				
.050	-.0194			.0539	.0496	.0182	-.0304
.080				-.0864			
.085			-.0796				
.088		.0173					
.084	-.0511						
.120		.0000		-.2640	-.2320	-.2196	-.2079
.163							
.177			-.2317				
.193		-.1083					
.229	-.0457						
.230				-.3498	-.3442	-.3536	-.3125
.874		-.3091					
.339		-.2036					
.362	-.0480			-.4395	-.4294		-.4053
.400			-.3892				
.402				-.4288	-.4144		
.497	.0000		.0000				
.520							
.565							
.600							
.630							
.700	-.2939			-.4245		-.3913	
.723							
.730							
.760			-.2201	-.4035	-.3761		
.775			-.1982				
.808							
.834	-.1822			-.3277	-.3911	-.3783	
.850			-.1740				
.897							
.883	1.0033			-.3195			-.3539
.900	-.0193			-.1470	-.3468		
.903				-.2863		-.3596	
.920							
.955			-.1096				
.969	.0082						

DATE 87 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(0803033)

UPPER WING

ARC87-718 1A14 CR-112-312MS

ALPHAO(9) = 0.020 BETA0 (3) = -.250

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/8W	.8780	.3840	.4870	.5340	.6730	.7800	.8870
X/CM							
.000	-.0371	-.1101	.3213	.7224	.7803	.6632	.6473
.020			.0416	.1694	.2593	.1412	.1046
.040		-.1171					
.060			-.0474				
.080	-.0781			-.0212	-.0094	-.0287	-.0780
.100				-.1402			
.120			-.1500				
.140		-.0683					
.160	-.0986			-.2877	-.2593	-.2497	-.2371
.180		.0000					
.200		-.1434	-.2888				
.220	-.1108						
.240		-.2911		-.3506	-.3691	-.3822	-.3349
.260		-.2470					
.280	-.0781			-.4273	-.4382		-.4187
.300			-.3473				
.320	.0000			-.4232	-.4243		
.340			.0000				
.360							-.3682
.380	-.2942			-.4035	-.4100		
.400							
.420			-.1873	-.4043	-.3941		-.3899
.440			-.1828				
.460	-.1409			-.3071	-.2835	-.3869	
.480		-.1647					
.500	-.0378			-.2399			-.3818
.520	.0037		-.1323	-.3204			
.540			-.1710				-.3846
.560			-.0943				
.580	-.0118						



ALPHA(3) = 0.030 BETA(4) = 4.070

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

1984	.2990	.3640	.4270	.5340	.6750	.7800	.8670
------	-------	-------	-------	-------	-------	-------	-------

Mr. Cw

.000	-.1670	-.3183	.1080	.6362	.6937	.6379	.6266
.020				.1063	.2166	.1196	.0656
.040		-.2394	-.0699				
.060			-.1106				
.080	-.1646			-.0331	-.0999	-.0431	-.0933
.100				-.1306			
.120			-.1407				
.140		-.1480					
.160	-.1693			-.2793	-.2618	-.2501	-.2447
.180		.0000					
.190			-.2367				
.200		-.0676					
.220	-.1549			-.3726	-.3324	-.3496	-.3365
.240			-.2261				
.260		-.2036					
.280	-.0367			-.4130	-.4267		-.4176
.300			-.3035				
.320				-.4298	-.4084		
.340	.0000		.0000				.3944
.360					-.4100		
.380	-.2312			-.2566		-.3630	-.3641
.400			-.1327				
.420				-.1766	-.3624		
.440			-.0707				
.460							
.480	.0076			-.1613	-.3664	-.3743	
.500			-.0312				
.520				-.1493			-.3427
.540	.0360						
.560	.0360		-.0011	-.3396			
.580				-.1811		-.3339	
.600			-.0003				
.620	-.0077						
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
1.000							

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(R83U33)

UPPER WING

ARCS 7-16 1A5-4 C1+712+512H25

ALPHA (S) = 0.080 BETA (S) = 0.180

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	CP	CP	CP	CP
.000	-.1036	-.0174	.3010	.2220	.4927
.020		-.0767	-.0646	.1255	.0307
.025		-.1917			
.040		-.1043			
.045		-.1914	-.1311	-.1049	-.0965
.050			-.2122		-.1462
.060			-.1331		
.065		-.1344			
.066		-.1594	-.2954	-.3016	-.2631
.094					-.2646
.150		.0000			
.163		-.1781			
.177		-.0807			
.193		-.0376	-.1024	-.3605	-.3747
.229					-.3600
.250		-.2063			
.274		-.1752			
.339		-.0240	-.3399	-.4356	-.4494
.400			-.2700		
.402					
.497		.0000	-.3459	-.4411	
.530					
.585					
.600					
.650					-.4434
.700		-.2489	-.2831		-.4439
.725			-.2254		
.750					-.4320
.760			-.1632		-.4236
.775			-.1763	-.3686	
.806			-.0939		
.834		-.0390			
.850			-.0943	-.1480	-.2080
.857					-.4020
.895		-.0362			
.900		-.0477	-.1266		-.3921
.905			-.0664	-.2036	
.920			-.1095		-.3627
.953			-.0943		
.965		-.0968			



PARAMETRIC DATA

WACH	=	2.200	ELEVON	=	.000
BUDDER	=	.000	SPDRK	=	.000

REFERENCE DATA

UNIT	INCHES	INCHES	INCHES
1/8"	0.125	0.125	0.125
1/4"	0.250	0.250	0.250
3/8"	0.375	0.375	0.375
1/2"	0.500	0.500	0.500
5/8"	0.625	0.625	0.625
3/4"	0.750	0.750	0.750
7/8"	0.875	0.875	0.875
1"	1.000	1.000	1.000
1 1/8"	1.125	1.125	1.125
1 1/4"	1.250	1.250	1.250
1 3/8"	1.375	1.375	1.375
1 1/2"	1.500	1.500	1.500
1 5/8"	1.625	1.625	1.625
1 3/4"	1.750	1.750	1.750
1 7/8"	1.875	1.875	1.875
2"	2.000	2.000	2.000
2 1/8"	2.125	2.125	2.125
2 1/4"	2.250	2.250	2.250
2 3/8"	2.375	2.375	2.375
2 1/2"	2.500	2.500	2.500
2 5/8"	2.625	2.625	2.625
2 3/4"	2.750	2.750	2.750
2 7/8"	2.875	2.875	2.875
3"	3.000	3.000	3.000
3 1/8"	3.125	3.125	3.125
3 1/4"	3.250	3.250	3.250
3 3/8"	3.375	3.375	3.375
3 1/2"	3.500	3.500	3.500
3 5/8"	3.625	3.625	3.625
3 3/4"	3.750	3.750	3.750
3 7/8"	3.875	3.875	3.875
4"	4.000	4.000	4.000
4 1/8"	4.125	4.125	4.125
4 1/4"	4.250	4.250	4.250
4 3/8"	4.375	4.375	4.375
4 1/2"	4.500	4.500	4.500
4 5/8"	4.625	4.625	4.625
4 3/4"	4.750	4.750	4.750
4 7/8"	4.875	4.875	4.875
5"	5.000	5.000	5.000
5 1/8"	5.125	5.125	5.125
5 1/4"	5.250	5.250	5.250
5 3/8"	5.375	5.375	5.375
5 1/2"	5.500	5.500	5.500
5 5/8"	5.625	5.625	5.625
5 3/4"	5.750	5.750	5.750
5 7/8"	5.875	5.875	5.875
6"	6.000	6.000	6.000
6 1/8"	6.125	6.125	6.125
6 1/4"	6.250	6.250	6.250
6 3/8"	6.375	6.375	6.375
6 1/2"	6.500	6.500	6.500
6 5/8"	6.625	6.625	6.625
6 3/4"	6.750	6.750	6.750
6 7/8"	6.875	6.875	6.875
7"	7.000	7.000	7.000
7 1/8"	7.125	7.125	7.125
7 1/4"	7.250	7.250	7.250
7 3/8"	7.375	7.375	7.375
7 1/2"	7.500	7.500	7.500
7 5/8"	7.625	7.625	7.625
7 3/4"	7.750	7.750	7.750
7 7/8"	7.875	7.875	7.875
8"	8.000	8.000	8.000
8 1/8"	8.125	8.125	8.125
8 1/4"	8.250	8.250	8.250
8 3/8"	8.375	8.375	8.375
8 1/2"	8.500	8.500	8.500
8 5/8"	8.625	8.625	8.625
8 3/4"	8.750	8.750	8.750
8 7/8"	8.875	8.875	8.875
9"	9.000	9.000	9.000
9 1/8"	9.125	9.125	9.125
9 1/4"	9.250	9.250	9.250
9 3/8"	9.375	9.375	9.375
9 1/2"	9.500	9.500	9.500
9 5/8"	9.625	9.625	9.625
9 3/4"	9.750	9.750	9.750
9 7/8"	9.875	9.875	9.875
10"	10.000	10.000	10.000
10 1			

$$-7.070 \quad \text{BETA} (1) = -7.030$$

DEPENDENT VARIABLE CP

[illegible]

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

003544)

UPPER WING

ARC97-716 1A14 Q1+718+312MS

ALPHA(1) = -7.870 BETA(1) = -7.830

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W .8980 .3640 .4270 .5340 .6730 .7600 .8870

W/CW

.930 .0932 -.0567

.933 .1982

.985 .8346

ALPHA(1) = -7.980 BETA(1) = -3.870

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W .8980 .3640 .4270 .5340 .6730 .7600 .8870

W/CW

.000 .0667 .0986 .3473 .7636 .7015 .6374 .6905

.020 .0465 .8985 .6562 .6760

.025 .3236

.040 .1193

.045 .8956

.050 .3514 .4561 .4876 .5166

.050 .2471

.065 .1641

.066 .1663

.094 .0743 .1076 .1266 .2332 .2960

.150 .0000

.163 .0600

.177 .1438

.193 .0670 .0146 .0343 .0842 .1356

.259 .0456

.274 .0012

.339 .1891

.382 .0000 .0602 .0657 -.0253

.400 .0264

.402 .0000 .1120 .0977

.497 .0000

.530 .0000

.563 .0000

.600 .0000

.650 .0000

.700 .0000

.725 .0000

.750 .0000

.760 .0000

.773 .0000

.808 .0000

.834 .0000

.850 .0000



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

00031241

UPPER WING

ARC87-716 1A14 Q1712-432M25

ALPHAO(1) = -7.000 BETAO(3) = .120

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.775				-.0777	-.0936		
.808			.0360				
.834	.0671						
.850				-.0222	-.0846	-.0924	
.857			.0593				
.865	.1033						-.0782
.900	.1237		.0347		-.0509		
.905			.0851		.0678	-.0642	
.930			.1210				
.935							
.965	.1178						

ALPHAO(1) = -7.000 BETAO(4) = 4.040

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	.0228	-.0063	.1937	.4841	.4070	.9345	.9372
.020				.4593	.4362	.4320	.4364
.025		.0211	.2069				
.040			.1664	.2899	.3145	.3271	.3454
.045	.0111			.2116			
.050			.1370				
.060							
.065		.0732					
.084	-.0063			.0867	.1134	.1570	.1932
.120		.0000					
.163			.0673				
.177		.1099					
.229	.0157			.0011	.0276	0.492	.0778
.250			.0157				
.274		-.0002					
.339	.0911			-.0740	-.0664		-.0444
.362			-.0581				
.400							
.402							
.497	.0000			-.1077	-.1020		
.530							
.583			.0000				-.1028
.600							
.630							-.1092



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83U4)

UPPER WING

ARC97-716 1A14 Q1+712+512N25

ALPHA(1) = -7.990 BETA(4) = 4.040

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8990	.8640	.4270	.5340	.6730	.7800	.8870
X/CW							
.700	-.0480			-.1013		-.1033	-.1082
.725							
.750							
.760							
.775							
.785							
.800							
.810							
.820							
.834							
.857							
.885							
.900							
.905							
.930							
.953							
.965							

ALPHA(1) = -8.030 BETA(5) = 0.100

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8990	.8640	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	-.0280	-.0577	.0823	.3361	.3342	.2968	.2919
.020				.3327	.3612	.3639	.4208
.025							
.040							
.045							
.050							
.060							
.085							
.086							
.094							
.120							
.160							
.177							
.193							
.220							
.230							
.274							
.339							
.362							
.400							
.402							
.497							

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OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R33U4)

UPPER WING

ALPHAO(1) = -0.030 BETAO(1) = 0.100

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/OW	.8900	.8640	.4270	.5340	.6730	.7600	.6670
X/CM							
.930				-.1023	-.0991		
.965				.0000			
.600							-.0625
.630							
.700	-.0623			-.0799		-.1054	
.725							
.750							
.760							
.775							
.809							
.834	.0228						
.850							
.857							
.865	.0677						
.900	.1192			.0354			-.0824
.905							
.930				.0659	-.0467		-.0335
.935							
.965	.0675			.1006			

ALPHAO(2) = -4.030 BETAO(1) = -7.760

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/OW	.8900	.8640	.4270	.5340	.6730	.7600	.6670
X/CM							
.000	.1093	.1533	.4603	.0767	.0545	.6096	.6671
.020				.6325	.6937	.6612	.7265
.025							
.040							
.045	.1927						
.050							
.055	.1802						
.060							
.065							
.066							
.094	.1010						
.130							
.163							
.177							
.193							
.229	.0922						
.250							
.274							
.339							



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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

UPPER WING

ARC97-716 1A14 01-718-312NE3

ALPHAO (2) = -4.030 BETAO (1) = -7.790

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W .2990 .3640 .4270 .5340 .6730 .7600 .8670

X/CV	.362	.0961					
.400							
.402							
.497							
.530							
.565							
.600							
.630							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.930							
.953							
.965							

ALPHAO (2) = -4.030 BETAO (2) = -3.840

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3640	.4270	.5340	.6730	.7600	.8670
X/CV							
.000							
.020							
.029							
.040							
.045							
.050							
.060							
.065							
.068							
.094							
.120							
.163							
.177							
.193							

ORIGINAL
OF POOR

DATE 27 JAN 70 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+T12+312NE3 (R03U2.4)

ALPHA01 (2) = -4.030 BETA0 (2) = -3.940

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.8900	.3840	.4270	.5340	.6730	.7600	.8870
X/CW							
.829	.0318						
.830							
.874							
.339							
.362							
.400							
.402							
.497							
.570							
.595							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.830							
.837							
.883							
.800							
.905							
.930							
.933							
.983							

ALPHA01 (2) = -4.040 BETA0 (3) = .040

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.8900	.3840	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	.0030	.0235	.2357	.5601	.5718	.5216	.5750
.020				.3596	.4939	.4865	.5084
.023				.1885			
.040				.0282			
.045				.1448			
.050	.0064			.2078	.2946	.3332	.3626
.080				.1235			
.085				.0780			
.088				.0570			
.094				.0178			



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 373

(R03J024)

UPPER WING

ALPHA(2) = -4.040 BETA(3) = .040

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/OW	.5940	.3840	.4270	.5340	.6730	.7800	.8870
X/CW							
.120				.0034	.0395	.1107	.1723
.165		.0000					
.177			-.0006				
.195		.0386					
.229	-.0171						
.250				-.0520	-.0520	-.0116	.0387
.274			-.0315				
.339		-.0599					
.362	.0395						
.400				-.1086	-.1243		-.0938
.402			-.1081				
.497	.0000						
.500				-.1448	-.1459		
.585			.0000				
.600							
.650							
.700	-.0792			-.1336	-.0988	-.1957	-.1913
.725							
.750						-.1950	-.1600
.780			-.0808				
.773				-.1166	-.1364		
.808			-.0168				
.834	.0091						
.850				-.0844	-.1338	-.1480	
.857		.0008					
.885	.0380						
.900	.0648						
.905			.0189	.0242	-.1083		-.1368
.950				1.0024		-.1185	
.955		.0388					
.985	.0643						

ALPHA(2) = -4.040 BETA(4) = 3.860

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/OW	.5940	.3840	.4270	.5340	.6730	.7800	.8870
X/CW							
.000	-.0294	-.0489	.1802	.3875	.3942	.3292	.4013
.080				.3117	.3564	.3435	.3768
.025			.1891				
.040		-.0313					
.045			.1070				
.050	-.0280			.1848	.2211	.2368	.2885

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83U4)

UPPER WING

ARC97-710 1A14 01-712-512M25

ALPHA(2) = -4.080 BETA(5) = 7.980

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	X/CW	.2990	.3640	.4270	.5340	.6730	.7600	.8670
.000	.000	-.0551	-.1150	.0462	.3034	.2906	.2326	.3982
.020	.020			.0462	.2474	.2994	.2967	.4135
.040	.040		-.1022					
.060	.060			.0466				
.080	.080	-.0513		.1451	.1937	.2022	.3092	
.100	.100			.0901				
.120	.120			.0469				
.140	.140	-.0722	-.0592					
.160	.160		.0000		.0096	.0319	.0571	.1603
.180	.180		.0352	.0032				
.200	.200	-.0494						
.220	.220				-.0502	-.0406	-.0304	.0304
.240	.240		-.0426	-.0373				
.260	.260	.0228			-.1075	-.1169		-.0665
.280	.280			-.0656				
.300	.300	.0000			-.1365	-.1363		
.320	.320			.0000				
.340	.340						-.1270	-.1196
.360	.360	-.0831			-.0987			
.380	.380			-.1331				
.400	.400					-.1170	-.1251	
.420	.420			-.1003	-.1177	-.1297		
.440	.440			-.0500				
.460	.460	-.0313			-.0781	-.1136	-.1081	
.480	.480			.0046				
.500	.500	.0279			-.0282	-.0740		-.1027
.520	.520	.0326		.0240				
.540	.540				-.0012	-.0736		
.560	.560			.0343				
.580	.580	.0264						

(RECU4)

UPPER WING

ARC97-716 1A14 Q1+712+512N23

ALPHA01 3) = -.100 BETA0 (1) = -.7.010

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.5990	.3640	.4270	.5340	.6750	.7600	.6670
Y/CW							
.000	.0654	.1477	.5039	.9353	.9037	.8454	.9253
.020				.5942	.6545	.6348	.6688
.040		.1373					
.060			.2456				
.080	.0936			.3519	.3939	.4312	.4560
.100			.1370	.2207			
.120		.1632					
.140	.0731			.0248	.0909	.1534	.2164
.160		.0000					
.180			.0142				
.200		.0611					
.220	.0649						
.240				.0726	.0202	.0105	.0616
.260		.0764					
.280	.0341						
.300			.1543	.11547	.1290		.0799
.320	.0000						
.340			.0000	.1859	.1649		
.360							
.380							
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.995							



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083014)

UPPER WING

ARC97-716 1A14 CR+T12+312N23

ALPHA(1) 31 = -.180 BETA(1) 2 = -3.800

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

1/CM .8900 .3640 .4270 .5340 .6730 .7800 .8670

1/CM

.000	.0131	.0803	.5886	.7783	.7681	.7190	.7633
.020				.4842	.5590	.5490	.5662
.025		.2493					
.040		.0359					
.045			.1716				
.050	.0153			.2586	.3227	.3646	.3763
.080				.1483			
.085			.0882				
.088		.0842					
.094	-.0016						
.120		.0000		-.0136	.0378	.1135	.1269
.163							
.177			-.0382				
.193		.0103					
.229	.0006						
.250				-.0949	-.0329	-.0188	.0209
.274			-.1016				
.339		-.0984					
.382	.0086						
.400				-.1877	-.1443		-.1089
.402			-.1878				
.497	.0000						
.530				-.1827	-.1788		
.585			.0000				
.600							
.650							-.1807
.700	-.1089				-.1740		
.725				-.1934	-.1004		
.750						-.1816	-.1730
.760			-.1810				
.775				-.1781	-.1787		
.808			-.0819				
.834	-.0478						
.850				-.1314	-.1838	-.1804	
.897			-.0783				
.985	-.0011						
.990	.0480						1.1484
.993			-.0470	-.1019	-.1885		
.995				-.0835		-.1845	
.998			-.0321				
.999	.0737						

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

003041

UPPER WING

ARC97-716 1A14 CR-112-SIGNE3

ALPHA(1 3) = -.186 BETAO (3) = .040

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3840	.4270	.5340	.6730	.7600	.8270
Z/CW							
.000	-.0273	.0015	.2745	.6402	.5976	.5629	.6293
.020			.1362	.3623	.4382	.4463	.4660
.040		-.0054					
.045			.0746				
.070	-.0239			.1960	.2410	.2823	.3037
.080				.1005			
.085			.0153				
.096		.0177					
.094	-.0482			-.0576	.0153	.0607	.1114
.130		.0000					
.163			-.0676				
.177		-.0266					
.193							
.229	-.0482						
.230				-.1239	-.0619	-.0920	-.0073
.274			-.1016				
.339		.0931					
.362	-.0211						
.400				-.1632	-.1620		-.1263
.402			-.1946				
.497	.0000						
.530				-.1632	-.1626		
.585			.0000				
.600							-.1731
.630					-.1847		
.700	-.1000			-.1721	-.1079		
.725							
.750			-.1069			-.1932	-.1879
.760				-.1515	-.1670		
.773			-.0610				
.806							
.834	-.0430			-.1046	-.1036	-.1920	
.836			-.0434				
.837							
.865	-.0067			-.0762			-.1661
.900	.0203		-.0333		-.1567		
.903				-.0563		-.1772	
.930			-.0150				
.933							
.963	.0210						



0834441

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

UPPER WING

ARC87-716 1A14 CR-712-S12N85

ALPHA(13) = -.200 BETA(14) = 4.030

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW .2990 .9640 .4270 .5340 .6730 .7600 .8670

H/CW

.000	-.0714	-.0690	.1413	.2002	.4992	.4451	.4960
.020				.2289	.3455	.3514	.3755
.025			.0516				
.040		-.0590					
.045			.0132				
.050	-.0847			.0910	.1755	.2149	.2367
.060			.0264				
.065			-.0111				
.066		-.0342					
.094	-.0617			-.0629	-.0292	.0226	.0679
.150		.0000					
.163			-.0653				
.177		-.0340					
.193							
.229	-.0600			-.1002	-.1046	-.0808	-.0536
.250							
.274			-.0626				
.339	-.0673	-.0920					
.362				-.1322	-.1625		-.1390
.400			-.1431				
.402							
.492	.0000			-.1767	-.1763		
.530			.0000				
.565							-.1840
.600							
.630					-.1609		
.700	-.1142			-.1072			
.725			-.1643				
.750					-.1677	-.1948	
.780			-.1032				
.775				-.1449	-.1637		
.806			-.0602				
.834	-.0302						
.850			-.0948	-.1625	-.1791		
.857			-.0480				
.885	-.0179						-.1751
.900	-.0030			-.0698			
.905			-.0391	-.1354			
.930				-.0539		-.1985	
.955			-.0239				
.985	-.0019						

(REBUSIA)

UPPER WING

ALPHA(13) = -.180 BETA(13) = 0.040

AIR(17-71) 1A14 CR+TIG+SIENES

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/W	.8900	.3640	.4270	.5340	.6730	.7000	.6870
W/CW							
.000	-.0000	-.1481	.0025	.3001	.3632	.3766	.5416
.020				.1729	.2536	.3564	.3593
.025			-.0126				
.040		-.1413					
.041			-.0126				
.050	-.0746			.0423	.1294	.2370	.2222
.060				.0349			
.085			-.0133				
.086		-.0910					
.094	-.0926						
.130				-.0493	-.0301	.0389	.0799
.183		.0000					
.177			-.0308				
.193		-.0223					
.229	-.0984						
.250				-.0906	-.0681	-.0411	-.0182
.274			-.0613				
.339		-.0657					
.382	-.0305						
.400			-.1298	-.1455	-.1489		-.1183
.402							
.497	.0000			-.1646	-.1578		
.530			-.0000				
.565							
.600							-.1017
.630					-.1304		
.700	-.1804			-.1974	-.1033		
.725						-.1564	-.1661
.730			-.1170				
.780			-.0348	-.1365	-.1393		
.779							
.808							
.834	-.0569						
.830			-.0307	-.0707	-.1324	-.1478	
.837							
.865	-.0153						
.900	.0098			-.0497			-.1393
.903			-.0211		-.0975		
.930				-.0340		-.1253	
.933			-.0132				
.985	-.0153						



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 203

003044)

UPPER WING

ARCS 7-16 1A14 C1-712+512N23

ALPHA(4) = 5.830 BETA(1) = -7.810

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8980	.3640	.4270	.5340	.6730	.7800	.8870
X/CU							
.000	.1221	.1159	.4807	.8980	.9408	.8927	.9376
.020				.5193	.6151	.3738	.5928
.025			.3026				
.040		.1091					
.045			.2110				
.050	.0720			.2915	.3403	.3884	.3751
.080				.1093			
.085			.1144				
.086		.1382					
.094	.0863						
.150				-.0072	.0554	.0972	.1509
.163		.0000					
.177			-.0382				
.183		.0433					
.229	.0434			-.1017	-.0615	-.0346	.0180
.274			-.0965				
.339		-.0982					
.362	.0308			.1798	-.1829		-.1150
.400			-.1701				
.402				-.2091	-.1871		
.497	.0000		.0000				
.520							
.585							
.600							
.650							-.1580
.700	-.1119			-.2144	-.0824		
.785							
.790						-.1895	-.1849
.790			.11200	-.1986	-.1842		
.779			.1176				
.808							
.834	-.0883			-.1678	-.1927	-.1888	
.850			-.1038				
.857							
.865	-.0648			-.1383			-.1406
.900	-.0448			-.1021	-.1827		
.905				-.1043			
.920			-.0884		-.1881		
.953							
.983	.0381						

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 304

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UPPER WING

ARC97-718 1A14 CR-T12-S12MS

ALPHA(1) = 3.930 BETA(2) = -3.900

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

1/8W	.2990	.3440	.4270	.5340	.6730	.7600	.8070
X/CW							
.000	.0143	.0378	.3999	.8304	.7900	.7640	.8270
.020				.4532	.5195	.4831	.4948
.025			.2384				
.040		.0445					
.045			.1467				
.050	-.0021			.2356	.2771	.2997	.2992
.060				.1809			
.065			.0537				
.068		.0662					
.094	-.0068						
.130				-.0356	.0162	.0563	.0991
.163		.0000					
.177			-.0021				
.193		-.0090					
.229	-.0109						
.230				-.1235	-.0863	-.0577	-.0280
.274			-.1323				
.339		-.1347					
.392	-.0208						
.400				-.1994	-.1679		-.1307
.402			-.1928				
.497	.0000						
.530				-.2240	-.2001		
.565			.0000				
.600							-.3734
.650					-.1954		
.700	-.1418				-.1031		
.725				-.2279			
.730						-.2059	-.1850
.760			-.1424				
.775				-.2137	-.2003		
.808			-.1410				
.834	-.1148						
.850				-.1853	-.2098	-.2049	
.857			-.1238				
.901	-.0690						
.900	-.0408						-.1731
.909			-.1196		-.1539	-.1999	
.950				-.1264		-.1983	
.953			-.1048				
.963	.0361						



(R83U4)

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

UPPER WING

ARC87-716 1A14 Q=712+SIGNES

ALPHA(4) = 3.040 BETA(3) = .030

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/W	.2990	.3040	.4270	.5340	.6750	.7800	.8870
X/CV							
.000	-.0473	.0040	.2932	.7122	.6647	.6500	.7022
.025			.1431	.3806	.4267	.4021	.4062
.040		-.0076					
.045			.0667				
.050	-.0321			.1063	.2066	.2354	.2933
.060				.0641			
.063			-.0112				
.066		.0128					
.094	-.0641						
.120		.0000		-.0742	-.0220	.0146	.0518
.163			-.1244				
.177		-.0637					
.193							
.229	-.0680						
.250				-.1411	-.1156	-.0699	-.0569
.274		-.1563					
.339							
.362	-.0638						
.400				-.2128	-.1870		-.1536
.402			-.2062				
.497	.0000						
.550				-.2326	-.2137		
.563			.0000				
.600							
.650						-.2036	-.1861
.700	-.1393				-.1037		
.723			-.2171			-.2153	-.1972
.750							
.770			-.1366		-.1032	-.2096	
.773							
.806			-.1240				
.834	-.0948						
.850				-.1070	-.2107	-.2146	
.857			-.1011				
.883	-.0511						
.900	-.0097						
.903			-.0944		-.1372		-.1914
.920							
.923			-.1336			-.2022	
.963	.0034		1.0000				

ORIGINAL
102 1003

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03U04)

UPPER WING

ALPHA(1) = 3.940 BETA(1) = 3.980

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.3040	.4270	.5340	.6730	.7600	.8670
X/CW							
.000	-.1032	-.0036	.1379	.2234	.5740	.5516	.5979
.020				.2076	.3259	.3259	.3271
.040			.0328				
.060		-.0768					
.080			-.0109	.0640	.1263	.1712	.1717
.100	-.0923			-.0053			
.120			-.0718				
.140		-.0568					
.160	-.0991			-.1230	-.0672	-.0241	.0119
.180			.0000				
.200			-.1496				
.220		-.0971					
.240	-.1009			-.1241	-.1496	-.1171	-.0047
.260			-.1534				
.280		-.1302					
.300	-.0713			-.2120	-.2029		-.1724
.320			-.1764				
.340				-.2102	-.2213		
.360	.0000						
.380						-.2178	-.1980
.400				-.1906	-.1136		
.420	-.1364						
.440			-.1121				
.460				-.1606	-.2091		
.480			-.0991				
.500		-.0794		-.1292	-.2096	-.2207	
.520			-.0917				
.540	-.0393			-.1140			-.2028
.560	-.0227		-.0912	-.1594			
.580				-.1007			-.2071
.600			-.0744				
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.000							



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 387

(R83U4)

UPPER WING

ARC97-716 1A14 Q1+712+312M3

ALPHA(14) = 3.030 BETA(14) = 0.020

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.2000	.3840	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.1147	-.1745	-.0243	.2753	.4312	.5664	.6182
.020				.0630	.2298	.2856	.2927
.025			-.0730				
.040		-.1631					
.045			-.0856				
.050	-.0935			-.0164	.0548	.1413	.1471
.060				-.0609			
.085				-.0856			
.096		-.1293					
.094	-.1066						
.120				-.1103	-.0897	-.0236	-.0001
.105		.0005					
.177		-.0677					
.193							
.229	-.1177						
.274			-.1163		-.1365	-.1334	-.1078
.339		-.1112					
.382	-.0984						
.400				-.1859	-.1804		-.1695
.402			-.1521				
.447	.0000						
.500			.0000	-.1926	-.2003		
.505							
.600							
.630						-.2071	-.1910
.700	-.1393			-.1698	-.1094		
.725							
.730			-.1180			-.2095	-.2049
.760				-.1392	-.1914		
.775			-.0644				
.808							
.834	-.0773			-.0925	-.1772	-.2068	
.850			-.0543				
.857							
.885	-.0407						
.900	-.0298		-.0745				-.1888
.905			-.0506	-.1326			
.930				-.0641		-.1878	
.953			-.0328				
.965	-.0354						

(REVISU4)

UPPER WING

ARCSP-716 1A14 Q1+T12+SIENE3

ALPHA(1) = 0.090 BETA(1) = -0.020

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/BW	.8990	.3840	.4270	.9340	.6730	.7600	.8670
1/CM							
.000	.0967	.0646	.9256	1.0090	.9673	.9295	.9006
.020			.4695	.9546	.4747	.4521	
.025			.2753				
.040		.0622					
.045			.1767				
.050	.0434		.2626	.2713	.2766	.2475	
.060			.1403				
.065			.0665				
.066		.1144					
.094	.0431			-.0347	.0096	.0274	.0675
.150		.0000					
.193		.0276					
.177			-.0756				
.193	.0965						
.229				-.1201	-.0956	-.0622	-.0463
.230			-.1246				
.274							
.339		-.0963					
.362	.0417			-.1979	-.1750		-.1468
.400			-.1662				
.497	.0000			-.2245	-.2056		
.550			.0000				
.600							-.1603
.650					-.1911		
.700	-.1181			-.0637			
.725			-.2245				
.730					-.2079	-.1849	
.760		-.1366		-.2052	-.2002		
.775		-.1393					
.806							
.834	-.0972			-.1846	-.2114	-.2002	
.850			-.1267				
.897							
.865	-.0791			-.1701			-.1596
.900	-.0649				-.2039		
.905		-.1364		-.1479			
.930							
.953		-.1277					
.965	-.0108						



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(RESULTS)

UPPER WING

ARC97-716 1A14 Q1+712-312N23

ALPHA(1) = 0.000 BETA(1) = -4.000

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

V/BW	.2960	.3640	.4270	.5340	.6730	.7800	.8870
X/CV	.000	.0117	.0451	.0023	.0656	.0630	.0167
.020				.4086	.4776	.4089	.3951
.025		.0356					
.040			.1185				
.045				.1907	.2161	.2263	.2014
.050	-.0208			.0766			
.060			.0271				
.085		.0651					
.094	-.0091			-.0756	-.0231	.0003	.0243
.130		.0000					
.163			-.0995				
.177		-.0202					
.193	-.0057						
.229			-.1452				
.230				-.1366	-.1179	-.1024	-.0776
.274		-.1384					
.339	-.0106			-.2133	-.1687		-.1662
.362			-.2001				
.400				-.2354	-.2156		
.402	.0000		.0000				-.1665
.497				-.0954		-.2046	
.530							
.565							
.600							
.650				-.2349			
.700	-.1307						
.725							
.730			-.1960			-.2162	-.2012
.760				-.2211	-.2119		
.775			-.1962				
.808							
.834	-.1321			-.2046	-.2246	-.2213	
.830			-.1454				
.857							
.883	-.1143			-.1622			-.1624
.900	-.0907		-.1957	-.2163			
.905				-.1696			-.2070
.930			-.1466				
.953							
.965	-.0367						

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 390

(R35U14)

UPPER WING

ALPHA(15) = 8.080 BETA(3) = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

V/W	2580	3640	4870	5340	6730	7800	8870
X/CW							
.000	-.0777	-.0323	.3128	.7207	.7238	.6997	.7345
.020			.3132	.2954	.3370	.3209	
.025			.1193				
.040		-.0301					
.045			-.1779				
.050	-.0747			.1231	.1643	.1733	.1567
.060				.7195			
.085			-.0332				
.086		-.0083					
.094	-.0660			-.1196	-.0446	-.0291	-.0045
.130		.0000					
.163			-.1927				
.177		-.0606					
.193			-.1693				
.229	-.0492			-.1392	-.1294	-.1202	-.0936
.230							
.274		-.1764					
.302	-.0717			-.4064	-.1924		-.1736
.400			-.2347				
.402				-.2350	-.2171		
.497	.0000		.0000				
.590							
.585							
.600							
.630					-.2077		-.1905
.700	-.1601			-.2264	-.0900		
.725							
.750			-.1935			-.2221	-.2024
.760			-.2135	-.2125			
.775			-.1923				
.809							
.834	-.1619			-.1970	-.2264	-.2240	
.830			-.1604				
.837							
.885	-.1448			-.1615			-.1886
.900	-.1101		-.1752	-.1972			
.905				-.1616		-.2127	
.930							
.935		-.1563					
.985	-.0387						



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(08304)

UPPER WING

ARC97-716 1A14 01+712+512M25

ALPHA01 31 = 0.090 BETA0 (4) = 4.010

SECTION (1) UPPER WING DEPENDENT VARIABLE CP

Y/BW	.8980	.9040	.9100	.9160	.9220	.9280	.9340	.9400	.9460	.9520	.9580	.9640	.9700	.9760	.9820	.9880	.9940	.9990
Z/CW																		
.000	-.1273	-.1036	.2096	.6352	.6701	.6276	.6400											
.020				.2195	.3314	.2813	.2645											
.025			.0375															
.040		-.0874																
.045			-.0219															
.050	-.1139			.0607	.1136	.1276	.1098											
.060				-.0227														
.085				-.0609														
.086		-.0801																
.094	-.1173																	
.150		.0000		-.1347	-.0633	-.0607	-.0361											
.163																		
.177				-.1797														
.193		-.1196																
.229	-.1070																	
.250				-.1641	-.1618	-.1430	-.1202											
.274			-.2047															
.339		-.1622																
.382	-.1051																	
.400				-.2363	-.2176		-.1946											
.402			-.2229															
.497	.0000			-.2508	-.2380													
.520																		
.585			.0000															
.600																		
.650																		
.700	-.1609			-.2230	-.1107		-.2290											
.725																		
.750																		
.780			-.1335															
.775				-.2134	-.2292													
.808			-.1249															
.834	-.0989																	
.830				-.2069	-.2291	-.2416												
.837			-.1102															
.865	-.0503																	
.900	-.0895			-.2066														
.905				-.2066														
.920			-.1109															
.935			-.1906	-.1787														
.955			-.1073															
.985	-.0365																	

ORIGINAL PAGE IS
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DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 302

(083041)

UPPER WING

ARCS7-716 1A14 Q1712+512M25

ALPHA(1 5) = 6.110 BETA(1 5) = 0.380

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

Y/BW	.2900	.3640	.4270	.5340	.6730	.7600	.8870
X/CW							
.000	-.1476	-.1687	-.0306	.3016	.6990	.6730	.6774
.020				.0241	.3130	.2941	.2763
.025			-.1079				
.040		-.1778					
.045			-.1260				
.050	.1226			-.0594	.0807	.1330	.1156
.060				-.1001			
.065			-.1471				
.068		-.1483					
.094	-.1227						
.130				-.1743	-.1067	-.0645	-.0366
.163		.0000					
.177			-.1366				
.193		-.1173					
.229	-.1316						
.230				-.1709	-.1778	-.1315	-.1236
.274			-.1498				
.339		-.1360					
.382	-.0016						
.400				-.2212	-.2269		-.2001
.402		-.1736					
.497	.0000						
.530				-.2086	-.2444		
.565			.0000				
.600							-.2162
.630					-.2332		
.700	-.1465			-.1906	-.1060		
.725						-.2471	-.2310
.730			-.1110				
.760				-.1641	-.2220		
.773			-.0960				
.806							
.834	-.0631						
.830				-.1252	-.2216	-.2491	
.837		-.0634					
.865	-.0390						-.2231
.900	-.0407			-.1067			
.903			-.0762		-.1846		
.930				-.0695		-.2317	
.933			-.0564				
.965	-.0319						



RRBSV11) (18 JAN 74)

ARC97-716 1A14 CR+718+312N3+AT11 LEFT VERTICAL

REFERENCE DATA

SRCP = 2.4213 36. FT. ZMRP = 29.5808 INCHES
 LRCF = 36.7090 INCHES YMRP = .0000 INCHES
 BRCP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

ALPHA(1) = -7.950 BETA(1) = -7.970

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7264	.6002	.6705	.6769	.6503
.025	.6193	.7174	.7320	.7306	.6080
.050	.7600	.6733	.6943	.6978	.7037
.150	.6228	.5849	.5995	.6106	.5736
.300	.4632	.5045	.5840	.5293	.5149
.500	.4017	.3940	.3520	.3567	.2769
.695	-.1110	-.1799	-.1693	-.1641	-.1729
.775	-.1760	-.1698	-.1417	-.1645	-.1993
.900		-.1430	-.1286	-.1940	-.1941

ALPHA(2) = -7.950 BETA(2) = -4.300

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7776	.6407	.7360	.7668	.7556
.025	.6201	.5615	.5307	.5632	.4185
.050	.6469	.5550	.5294	.5537	.5452
.150	.5230	.4374	.4631	.4835	.4728
.300	.3924	.3755	.4534	.4350	.4409
.500	.2728	.2903	.2924	.3048	.2440
.695	-.1899	-.2256	-.1906	-.2234	-.1959
.775	-.2239	-.2132	-.1862	-.2303	-.2284
.900		-.2070	-.1916	-.2415	-.2359

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DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE

ARC37-716 1A14 Q1+712+312MS+AT11 LEFT VERTICAL

003V111

ALPHAO(1) = -7.980 BETAO(3) = -.130

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV	.0003	.7603	.7654	.7626	.7667
.0025	.2953	.2013	.1074	.0967	.0330
.030	.3764	.2683	.1316	.1100	.0733
.130	.4066	.3032	.2602	.2672	.2672
.300	.2967	.2304	.3134	.2324	.3011
.520	.1414	.1537	.1767	.1650	.1767
.643	-.2476	-.2761	-.2450	-.2341	-.2151
.773	-.2312	-.2771	-.2376	-.2701	-.2473
.900		-.2767	-.2424	-.2627	-.2440

ALPHAO(1) = -7.970 BETAO(4) = 3.810

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV	.7763	.7372	.7408	.7134	.7407
.0025	.0719	-.0717	-.2879	-.3008	-.3313
.030	.0413	-.0704	-.2454	-.2579	-.3493
.130	.2337	.0657	-.1360	-.1851	-.1594
.300	.1761	.1080	.1830	.1092	-.0746
.520	.0640	.0311	.1092	.0744	.0919
.643	-.2396	-.3199	-.3000	-.2692	-.2243
.773	-.2143	-.3270	-.2892	-.3060	-.2363
.900		-.2970	-.3086	-.3103	-.2306

ALPHAO(1) = -7.980 BETAO(5) = 7.760

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV	.7122	.6471	.6704	.5926	.6415
.0025	-.0336	-.1157	-.2019	-.3704	-.3673
.030	-.0304	-.1221	-.3013	-.4112	-.4637
.130	-.0642	-.1003	-.1882	-.3575	-.2692
.300	.1074	-.0714	-.0403	-.2794	-.2352
.520	.0429	-.0487	-.0633	-.1930	-.1331
.643	-.3176	-.3194	-.3336	-.3630	-.3496
.773	-.2492	-.3232	-.3609	-.3676	-.3737
.900		-.3236	-.3560	-.3636	-.3647



0803V11)

ARC97-716 1A14 CL+712+512MS+AT11 LEFT VERTICAL

ALPHA(1,2) = -4.000 BETA(1,3) = -7.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
H/CV					
.000	.6473	.5226	.9004	.5727	.5196
.025	.7209	.6407	.8589	.6323	.5209
.050	.6637	.6067	.8183	.6160	.6124
.100	.5372	.4853	.5377	.5353	.5130
.200	.3946	.4209	.5112	.4620	.4395
.300	.3407	.3332	.2843	.3003	.2359
.400	.1326	.1922	.1906	.1986	.1944
.500	.1921	.1924	.1726	.1801	.1209
.600	.1732	.1577	.1573	.1573	.1261

ALPHA(1,2) = -4.000 BETA(1,3) = -4.110

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
H/CV					
.000	.7006	.6102	.6806	.6462	.6264
.025	.5804	.4915	.4329	.4845	.3459
.050	.5346	.4934	.4203	.4762	.4032
.100	.4434	.3732	.3800	.4263	.4096
.200	.2969	.2929	.3844	.3796	.3720
.300	.2200	.2246	.2340	.2544	.2036
.400	.1237	.1498	.1116	.1248	.1203
.500	.1237	.1498	.1116	.1248	.1203
.600	.1237	.1498	.1116	.1248	.1203

ALPHA(1,2) = -4.030 BETA(1,3) = -1.140

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
H/CV					
.000	.7805	.7003	.7070	.6576	.6063
.025	.6300	.1489	.0849	.0702	.0004
.050	.6300	.1484	.0670	.0643	.0436
.100	.3417	.8497	.2300	.2311	.2336
.200	.2079	.1617	.2564	.1935	.2396
.300	.0902	.0906	.1246	.1425	.1314
.400	.1232	.1444	.1406	.1207	.1293
.500	.1232	.1444	.1406	.1207	.1293
.600	.1232	.1444	.1406	.1207	.1293

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0034111)

ARC07-716 1A14 Q1718-SIGNEZ-AT11 LEFT VERTICAL

ALPHA01 (1) = -4.838 BETA0 (4) = 3.760

SECTION (1) LEFT VERTICAL. DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
N/CV	.0002	.0028	.0037	.0058	.0414
.000	.0000	.0000	.0000	.0000	.0414
.005	-.0140	-.1058	-.3047	-.3092	-.3503
.020	-.0308	-.1119	-.2890	-.3161	-.3728
.130	.1758	.0315	-.1031	-.2241	-.1891
.300	.1327	.0896	.1179	-.1357	-.0930
.500	.0103	-.0013	.0585	.0386	.0601
.600	-.2975	-.3460	-.3234	-.3009	-.2415
.775	-.2125	-.3499	-.3239	-.3211	-.2637
.900	-.2037	-.3305	-.3152	-.3152	-.2471

ALPHA01 (2) = -4.040 BETA0 (5) = 7.760

SECTION (1) LEFT VERTICAL. DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
N/CV	.0035	.5885	.5778	.4974	.5382
.000	.0035	.5885	.5778	.4974	.5382
.005	-.0958	-.1951	-.3074	-.3788	-.4007
.030	-.1102	-.1824	-.3174	-.4253	-.4751
.130	-.1108	-.1481	-.2118	-.3028	-.3573
.300	.0512	-.1171	-.1183	-.3098	-.2782
.500	-.0073	-.0985	-.1038	-.2253	-.1488
.600	-.3312	-.3448	-.3083	-.3917	-.3088
.775	-.2558	-.3481	-.3788	-.4024	-.3940
.900	-.3318	-.3518	-.3778	-.4087	-.3896

ALPHA01 (3) = -.800 BETA0 (1) = -7.823

SECTION (1) LEFT VERTICAL. DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
N/CV	.9880	.4431	.2058	.4788	.4313
.000	.9880	.4431	.2058	.4788	.4313
.005	.0005	.5082	.5731	.5748	.4480
.030	.0294	.5318	.5411	.5482	.5382
.130	.0923	.4188	.4808	.4683	.4358
.300	.3338	.3333	.4459	.3647	.3841
.500	.2987	.2977	.2932	.2903	.2119
.600	-.1820	-.2003	-.2114	-.2127	-.2108
.775	-.2188	-.1990	-.1941	-.2280	-.2587
.900	-.1917	-.1735	-.2338	-.2341	-.2341

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2
 ANG87-716 1A14 01-4712-312NE3-AT11 LEFT VERTICAL

0035111

ALPHA(1) 3) = -.800 BETA(1) 2) = -4.100

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1500	.3100	.6000	.8400	.9250
M/CV					
.000	.0028	.0418	.0004	.0934	.5793
.025	.4748	.4140	.3750	.4103	.2878
.050	.4723	.4130	.3654	.3994	.3854
.100	.3709	.3003	.3333	.3609	.3531
.300	.2299	.2359	.3327	.3154	.3222
.500	.1064	.1730	.1954	.2106	.1693
.603	-.2590	-.2678	-.2292	-.2382	-.2244
.775	-.2343	-.2509	-.2249	-.2345	-.2507
.900		-.2499	-.2202	-.2008	-.2674

ALPHA(1) 3) = -.810 BETA(1) 3) = -.170

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1500	.3100	.6000	.8400	.9250
M/CV					
.000	.0317	.0270	.6180	.5778	.5768
.025	.1068	.0945	.0219	.0593	-.0026
.050	.1408	.1083	.0369	.0454	.0216
.100	.2760	.2007	.1808	.1961	.2240
.300	.1336	.1306	.2077	.1500	.2040
.500	.0086	.0722	.0791	.1103	.0564
.603	-.2935	-.3072	-.2907	-.2770	-.2528
.775	-.2103	-.3032	-.2913	-.2979	-.2864
.900		-.2942	-.2930	-.3002	-.2991

ALPHA(1) 3) = -.810 BETA(1) 4) = 3.010

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1500	.3100	.6000	.8400	.9250
M/CV					
.000	.0306	.0633	.5729	.5183	.5743
.025	-.0008	-.1472	-.3108	-.3185	-.3466
.050	.0793	-.1549	-.2937	-.3426	-.3688
.100	.1218	.0216	-.1784	-.2337	-.1936
.300	.0943	.0249	.0913	-.1283	-.0499
.500	-.0231	-.0351	.0488	.0539	.1059
.603	-.2679	-.3630	-.3114	-.2979	-.2333
.775	-.1693	-.3493	-.3131	-.3274	-.2643
.900		-.2322	-.3139	-.3346	-.2719

ARC37-716 1A14 OL-712-S12N23-AT11 LEFT VERTICAL (883711)

ALPHA(1,3) = -.810 BETA(1,3) = 7.740

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0003	.4970	.5037	.4126	.4584
.025	-.1066	-.1848	-.3132	-.3887	-.4169
.050	-.1769	-.1845	-.3241	-.4552	-.4840
.100	-.1478	-.1806	-.2100	-.4043	-.3272
.200	.0542	-.1903	-.1912	-.3342	-.2977
.300	-.0389	-.1188	-.1426	-.2375	-.1842
.400	-.3374	-.3556	-.3674	-.4029	-.3737
.775	-.2067	-.3508	-.3822	-.4192	-.3989
.900		-.3410	-.3862	-.4259	-.3940

ALPHA(1,4) = 3.840 BETA(1,4) = -7.880

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5894	.4100	.4265	.3809	.3419
.025	.6003	.5066	.4849	.5027	.3452
.050	.5582	.4841	.4631	.4750	.4850
.100	.4185	.5538	.3905	.3980	.3990
.200	.2377	.2850	.3717	.3562	.3350
.300	.2188	.2417	.1904	.2181	.1775
.400	-.2120	-.2280	-.2244	-.2350	-.2253
.775	-.2220	-.2230	-.2063	-.2330	-.2511
.900		-.2263	-.1891	-.2537	-.2471

ALPHA(1,4) = 3.980 BETA(1,4) = -4.130

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5864	.4963	.5358	.5120	.4897
.025	.5848	.5209	.5023	.5015	.1864
.050	.5786	.5431	.5030	.5101	.5081
.100	.5885	.5407	.5463	.5759	.2654
.200	.1619	.1751	.2460	.2466	.2532
.300	.1801	.1231	.1257	.1482	.1201
.400	-.2891	-.2935	-.2719	-.2642	-.2423
.775	-.2518	-.2759	-.2668	-.2851	-.2772
.900		-.2709	-.2808	-.2881	-.2871



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03V11)

ARC97-716 1A14 01+712+512N2+AT13 LEFT VERTICAL

ALPHA01 (4) = 3.980 BETA0 (3) = -.160

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6259	.5496	.9290	.4836	.4748
.025	-.0107	.0408	-.0179	.0036	-.0578
.050	.0333	.0541	.0067	-.0074	-.0157
.100	.2039	.1443	.1362	.1354	.1743
.200	.0971	.0853	.1667	.0988	.1951
.300	.0209	.0283	.0435	.0539	.0337
.400	-.2970	-.3279	-.2973	-.3009	-.2704
.500	-.1892	-.3249	-.2973	-.3275	-.3063
.600		-.2728	-.2990	-.3335	-.3129

ALPHA01 (4) = 3.830 BETA0 (4) = 3.778

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6070	.5163	.4965	.4809	.4809
.025	-.0666	-.1642	-.2487	-.2736	-.3541
.050	-.0578	-.1725	-.2557	-.3019	-.3578
.100	.1078	.0040	-.0824	-.2145	-.1934
.200	.0516	.0247	.0792	.0090	.0280
.300	-.0384	-.0210	.0221	.0174	.0642
.400	-.1936	-.3561	-.3074	-.3059	-.2664
.500	-.1763	-.2843	-.3243	-.3417	-.2951
.600		-.2223	-.3305	-.3467	-.3021

ALPHA01 (4) = 3.940 BETA0 (5) = 7.740

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5426	.4403	.4117	.3146	.3954
.025	-.1796	-.2357	-.3168	-.4160	-.4488
.050	-.1908	-.2384	-.3272	-.4630	-.5041
.100	-.2223	-.2387	-.2517	-.4434	-.3478
.200	.0139	-.1801	-.1982	-.3591	-.3245
.300	-.1036	-.1438	-.1826	-.2293	-.2073
.400	-.2020	-.3049	-.3717	-.4360	-.3770
.500	-.2224	-.3543	-.3940	-.4626	-.4057
.600		-.3000	-.3973	-.4637	-.4084

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CL-T18+SI28S+AT11 LEFT VERTICAL (083V11)

ALPHA(5) = 0.040 BETA(1) = -7.930

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5177	.3634	.3636	.2621	.2222
.025	.4905	.4530	.4298	.4007	.2575
.050	.4359	.4250	.4059	.3743	.3631
.100	.3288	.2992	.3339	.3054	.3449
.200	.1309	.2180	.3206	.2490	.2895
.300	.1191	.1761	.1563	.1307	.1472
.400	-.2749	-.7493	-.2446	-.2594	-.2376
.500	-.2693	-.2480	-.2203	-.3209	-.2586
.600	-.2638	-.2071	-.3176	-.2555	

ALPHA(5) = 0.080 BETA(2) = -4.190

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6406	.4976	.4564	.4015	.3660
.025	.2509	.2766	.2240	.2194	.0985
.050	.3379	.3065	.2377	.2212	.2206
.100	.2602	.2100	.2051	.1885	.2263
.200	.1300	.1404	.2021	.1551	.1983
.300	.0716	.0962	.0880	.0695	.0760
.400	-.3075	-.3025	-.2751	-.3330	-.2644
.500	-.2846	-.2842	-.2618	-.3565	-.2960
.600	-.2659	-.2326	-.3576	-.3937	

ALPHA(5) = 0.030 BETA(3) = -.190

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5395	.4803	.4432	.3607	.3320
.025	-.1092	.0136	-.0359	-.0821	-.1476
.050	-.0740	.0330	-.0203	-.0790	-.0894
.100	.1894	.1066	.0695	.0375	.1210
.200	.0642	.0613	.1204	.0072	.1114
.300	-.0049	.0008	.0129	-.0246	.0192
.400	-.2870	-.3305	-.3109	-.3779	-.2842
.500	-.1889	-.3318	-.3122	-.4084	-.3195
.600	-.2466	-.3112	-.4116	-.3276	



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 01+712+512N5+AT11 LEFT VERTICAL (R83V11)

ALPHA(5) = 8.050 BETA(4) = 3.840
SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.3720	.5055	.4302	.3095	.3990
.025	-.0115	-.1255	-.2007	-.2755	-.3382
.050	.0536	-.1563	-.2190	-.2828	-.3420
.150	.1616	.0476	-.0418	-.2090	-.1861
.200	.0590	.0279	.0540	-.0304	.0494
.250	-.0479	-.0453	.0023	-.0240	.0257
.300	-.2134	-.3736	-.3225	-.3400	-.2877
.350	-.1907	-.2832	-.3291	-.3759	-.3157
.400		-.2277	-.3351	-.3611	-.3244

ALPHA(5) = 8.060 BETA(5) = 7.800
SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4857	.4208	.3571	.2326	.2001
.025	-.0678	-.1905	-.3187	-.3972	-.4424
.050	-.1126	-.2044	-.3293	-.4463	-.4915
.150	.0664	-.1901	-.2734	-.4460	-.3678
.200	.0538	-.1324	-.2171	-.3420	-.3418
.250	-.1648	-.1404	-.1070	-.2411	-.1398
.300	-.2785	-.3823	-.3746	-.4504	-.3745
.350	-.2234	-.2871	-.3923	-.4503	-.4141
.400		-.2423	-.3780	-.4344	-.4141

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OF POOR QUALITY

083V12) (18 JAN 74)

ARC97-716 1A14 Q14712-S12N25-A711 LEFT VERTICAL

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPDRBK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5600 INCHES
LREF = 30.7090 INCHES YMRP = .0000 INCHES
BREF = 30.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1900 .3160 .6000 .8400 .9820

X/CV	.000	.7661	.6779	.8268	.6825	.7664
.000	.0000	.0000	.0000	.0000	.0000	.0000
.025	.0000	.0000	.0000	.0000	.0000	.0000
.050	.0000	.0000	.0000	.0000	.0000	.0000
.075	.0000	.0000	.0000	.0000	.0000	.0000
.100	.0000	.0000	.0000	.0000	.0000	.0000
.125	.0000	.0000	.0000	.0000	.0000	.0000
.150	.0000	.0000	.0000	.0000	.0000	.0000
.175	.0000	.0000	.0000	.0000	.0000	.0000
.200	.0000	.0000	.0000	.0000	.0000	.0000
.225	.0000	.0000	.0000	.0000	.0000	.0000
.250	.0000	.0000	.0000	.0000	.0000	.0000
.275	.0000	.0000	.0000	.0000	.0000	.0000
.300	.0000	.0000	.0000	.0000	.0000	.0000
.325	.0000	.0000	.0000	.0000	.0000	.0000
.350	.0000	.0000	.0000	.0000	.0000	.0000
.375	.0000	.0000	.0000	.0000	.0000	.0000
.400	.0000	.0000	.0000	.0000	.0000	.0000
.425	.0000	.0000	.0000	.0000	.0000	.0000
.450	.0000	.0000	.0000	.0000	.0000	.0000
.475	.0000	.0000	.0000	.0000	.0000	.0000
.500	.0000	.0000	.0000	.0000	.0000	.0000
.525	.0000	.0000	.0000	.0000	.0000	.0000
.550	.0000	.0000	.0000	.0000	.0000	.0000
.575	.0000	.0000	.0000	.0000	.0000	.0000
.600	.0000	.0000	.0000	.0000	.0000	.0000
.625	.0000	.0000	.0000	.0000	.0000	.0000
.650	.0000	.0000	.0000	.0000	.0000	.0000
.675	.0000	.0000	.0000	.0000	.0000	.0000
.700	.0000	.0000	.0000	.0000	.0000	.0000
.725	.0000	.0000	.0000	.0000	.0000	.0000
.750	.0000	.0000	.0000	.0000	.0000	.0000
.775	.0000	.0000	.0000	.0000	.0000	.0000
.800	.0000	.0000	.0000	.0000	.0000	.0000
.825	.0000	.0000	.0000	.0000	.0000	.0000
.850	.0000	.0000	.0000	.0000	.0000	.0000
.875	.0000	.0000	.0000	.0000	.0000	.0000
.900	.0000	.0000	.0000	.0000	.0000	.0000

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1900 .3160 .6000 .8400 .9820

X/CV	.000	.6570	.8242	.7197	.9242	.8634
.000	.0000	.0000	.0000	.0000	.0000	.0000
.025	.0000	.0000	.0000	.0000	.0000	.0000
.050	.0000	.0000	.0000	.0000	.0000	.0000
.075	.0000	.0000	.0000	.0000	.0000	.0000
.100	.0000	.0000	.0000	.0000	.0000	.0000
.125	.0000	.0000	.0000	.0000	.0000	.0000
.150	.0000	.0000	.0000	.0000	.0000	.0000
.175	.0000	.0000	.0000	.0000	.0000	.0000
.200	.0000	.0000	.0000	.0000	.0000	.0000
.225	.0000	.0000	.0000	.0000	.0000	.0000
.250	.0000	.0000	.0000	.0000	.0000	.0000
.275	.0000	.0000	.0000	.0000	.0000	.0000
.300	.0000	.0000	.0000	.0000	.0000	.0000
.325	.0000	.0000	.0000	.0000	.0000	.0000
.350	.0000	.0000	.0000	.0000	.0000	.0000
.375	.0000	.0000	.0000	.0000	.0000	.0000
.400	.0000	.0000	.0000	.0000	.0000	.0000
.425	.0000	.0000	.0000	.0000	.0000	.0000
.450	.0000	.0000	.0000	.0000	.0000	.0000
.475	.0000	.0000	.0000	.0000	.0000	.0000
.500	.0000	.0000	.0000	.0000	.0000	.0000
.525	.0000	.0000	.0000	.0000	.0000	.0000
.550	.0000	.0000	.0000	.0000	.0000	.0000
.575	.0000	.0000	.0000	.0000	.0000	.0000
.600	.0000	.0000	.0000	.0000	.0000	.0000
.625	.0000	.0000	.0000	.0000	.0000	.0000
.650	.0000	.0000	.0000	.0000	.0000	.0000
.675	.0000	.0000	.0000	.0000	.0000	.0000
.700	.0000	.0000	.0000	.0000	.0000	.0000
.725	.0000	.0000	.0000	.0000	.0000	.0000
.750	.0000	.0000	.0000	.0000	.0000	.0000
.775	.0000	.0000	.0000	.0000	.0000	.0000
.800	.0000	.0000	.0000	.0000	.0000	.0000
.825	.0000	.0000	.0000	.0000	.0000	.0000
.850	.0000	.0000	.0000	.0000	.0000	.0000
.875	.0000	.0000	.0000	.0000	.0000	.0000
.900	.0000	.0000	.0000	.0000	.0000	.0000



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 403

ARC97-716 1A14 Q1-T12-S12N25-A711 LEFT VERTICAL

(083V12)

ALPHA(1) = -7.000 BETA(3) = -.050

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/Ø	.1500	.3100	.0000	.0400	.9250
X/CV					
.000	.8346	.0936	.9516	.9305	.9192
.025	.1877	.2993	.1746	.1397	.0474
.050	.2013	.2751	.2115	.1471	.1057
.150	.5116	.4297	.4006	.3624	.2915
.300	.3840	.3475	.3615	.3526	.3994
.500	.2292	.2366	.2669	.3025	.3020
.665	-.0773	-.0746	-.0481	-.0226	-.0067
.775	-.1032	-.0793	-.0577	-.0520	-.0396
.900		-.0924	-.0626	-.0616	-.0511

ALPHA(1) = -8.000 BETA(4) = 3.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/Ø	.1500	.3100	.0000	.0400	.9250
X/CV					
.000	.8204	.8292	.8732	.8717	.8914
.025	-.0245	-.0126	-.1064	-.0346	-.0505
.050	-.0142	-.0190	-.0614	-.0365	-.0631
.150	.3006	.1542	.0511	.0445	.0742
.300	.2704	.2680	.1199	.0720	.1303
.500	.1996	.1601	.1952	.0875	.1406
.665	-.1122	-.1220	-.1029	-.1170	-.0630
.775	-.1306	-.1200	-.1166	-.1162	-.1055
.900		-.1301	-.1166	-.1037	-.1050

ALPHA(1) = -8.030 BETA(5) = 7.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/Ø	.1500	.3100	.0000	.0400	.9250
X/CV					
.000	.7767	.6937	.7676	.7430	.7509
.025	-.0965	-.0959	-.1643	-.1302	-.1262
.050	-.0721	-.0972	-.1444	-.1774	-.1863
.150	-.0139	-.0876	-.1109	-.1150	-.0637
.300	.0362	-.0203	-.0514	-.0650	-.0411
.500	.1176	.0296	.0411	-.0305	.0110
.665	-.1407	-.1227	-.1731	-.2129	-.1554
.775	-.1333	-.1313	-.1766	-.2223	-.1782
.900		-.1480	-.1773	-.2337	-.1909

DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 404

REVERSE

ARC97-716 1A14 Q1-T1B-SSENS-AT11 LEFT VERTICAL

ALPHA0(2) = -4.030 BETA0(1) = -7.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.0326	.5746	.6761	.7262	.6737
.025	.7224	.7647	.6742	.6749	.5707
.050	.0606	.6707	.6442	.6513	.6409
.150	.3777	.3568	.3483	.3722	.3634
.300	.4236	.4494	.4604	.3146	.3495
.500	.3035	.3569	.4033	.4313	.4054
.605	-.0199	.0114	.0220	.0421	.0403
.775	-.0123	.0027	.0255	.0140	.0166
.900		-.0095	.0496	.0012	.0106

ALPHA0(2) = -4.030 BETA0(2) = -3.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.7649	.7237	.7632	.7934	.7592
.025	.4691	.3356	.4817	.4706	.3735
.050	.6022	.5567	.4985	.4900	.4728
.150	.3109	.4627	.4366	.4470	.4643
.300	.3705	.3626	.3924	.4011	.4319
.500	.2364	.2487	.2924	.3197	.3199
.605	-.0230	-.0370	-.0316	-.0063	-.0003
.775	-.0881	-.0567	-.0265	-.0292	-.0307
.900		-.0643	-.0356	-.0439	-.0346

ALPHA0(2) = -4.040 BETA0(3) = -.060

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.7110	.7768	.8011	.7937	.7800
.025	.0735	.2326	.1204	.0932	.0078
.050	.1432	.2262	.1497	.0964	.0496
.150	.4193	.3613	.3262	.2399	.2016
.300	.2856	.2791	.3155	.2776	.3245
.500	.1639	.1691	.2132	.2363	.2373
.605	-.1120	-.1079	-.0713	-.0526	-.0350
.775	-.1304	-.1080	-.0637	-.0816	-.0856
.900		-.1203	-.0886	-.0911	-.0760



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83W12)

ARC97-710 1A14 OR-T12-S12M5-A111 LEFT VERTICAL

ALPHA(1) = -4.021 BETA(1) = 3.830

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .8400 .9250

Z/CV
 .000 .7832 .7422 .7476 .7361 .7005
 .025 -.0740 -.0990 -.1176 -.0795 -.0933
 .050 -.0576 -.0597 -.0832 -.0863 -.1091
 .150 .1868 .0593 -.0116 -.0181 .0317
 .300 .1933 .2166 .0456 .0030 .0760
 .500 .0961 .0956 .1496 .0173 .0918
 .605 .1386 .1453 .1070 .1805 .1109
 .775 .1591 .1494 .1215 .1751 .1365
 .900 .1576 .1266 .1542 .1392

ALPHA(1) = -4.070 BETA(1) = 7.830

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .8400 .9250

Z/CV
 .000 .9841 .9771 .6372 .8232 .5972
 .025 -.6460 -.1318 -.1849 -.1437 -.0299
 .050 .4031 .1321 .1718 .1893 .1984
 .150 .8480 .1598 .1336 .1400 .0885
 .300 .0218 .0530 .1022 .1125 .0729
 .500 .0496 .1716 .0195 .0770 .0284
 .605 .1644 .6356 .1783 .2197 .1692
 .775 .1798 .6356 .1793 .2302 .1934
 .900 .6596 .4048 .2391 .2031

ALPHA(1) = -.800 BETA(1) = -7.940

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .8400 .9250

Z/CV
 .000 .3744 .5120 .6135 .6092 .5824
 .025 .8001 .6108 .8037 .5903 .4934
 .050 .5883 .6084 .6745 .5673 .5539
 .150 .4818 .4739 .4836 .4948 .5183
 .300 .3348 .3869 .4323 .4441 .4887
 .500 .2411 .2999 .3476 .3767 .3603
 .605 .0393 .0167 .0034 .0183 .0171
 .775 .0386 .0264 .0150 .0080 .0022
 .900 .0382 .0153 .0113 .0027

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 406

ARC97-716 1A14 Q1+712+512M25+7111 LEFT VERTICAL (MBSV12)

ALPHA(1 3) = -.800 BETA(2) = -4.030

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000	.6322	.6244	.6233	.6049	.6342
.025	.3956	.4757	.4275	.4162	.3362
.050	.4793	.4897	.4366	.4241	.4133
.150	.4263	.3976	.3772	.3762	.3963
.300	.2983	.3070	.3476	.3345	.3641
.520	.1779	.1969	.2326	.2567	.2626
.665	-.1020	-.0879	-.0320	-.0243	-.0264
.775	-.1204	-.0669	-.0535	-.0553	-.0509
.900		-.0909	-.0544	-.0702	-.0575

ALPHA(1 3) = -.810 BETA(3) = -.120

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000	.6303	.6024	.6005	.6666	.6551
.025	.0474	.1861	.1014	.0716	-.0045
.050	.1137	.1624	.1197	.0645	.0219
.150	.3459	.2992	.2647	.2135	.1751
.300	.2265	.2262	.2746	.2179	.2734
.520	.1135	.1211	.1607	.1610	.1656
.665	-.1390	-.1120	-.0916	-.0713	-.0593
.775	-.1303	-.1264	-.1041	-.1060	-.0879
.900		-.1580	-.1084	-.1121	-.0999

ALPHA(1 3) = -.810 BETA(4) = 3.680

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000	.6326	.6450	.6209	.6070	.6300
.025	-.0953	-.1324	-.1401	-.0938	-.1026
.050	-.0805	-.0912	-.1123	-.1097	-.1246
.150	.0066	-.0366	-.0423	-.0540	-.0060
.300	.1224	.1416	.0035	.0325	.0066
.520	.0483	.0554	.0933	.0159	.0447
.665	-.1228	-.1616	-.1262	-.1615	-.1336
.775	-.1756	-.1675	-.1389	-.1766	-.1576
.900		-.1764	-.1435	-.1659	-.1576



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 407

ARC97-716 1A14 Q1-T12-SIGNE-AT11 LEFT VERTICAL

083V821

ALPHA(1,3) = -.1220 BETA(1,3) = 7.865

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.5742	.5084	.5981	.5156	.5957
.025	-.1108	-.1524	-.1031	-.1531	-.1506
.050	-.1238	-.1521	-.1956	-.1991	-.2099
.100	-.0911	-.1548	-.1429	-.1543	-.1025
.150	-.0884	-.0845	-.1242	-.1283	-.0906
.200	-.0758	-.0769	-.0941	-.0985	-.0662
.250	-.1767	-.1762	-.2012	-.2235	-.1835
.300	-.1836	-.1828	-.2164	-.2370	-.2088
.350		-.1969	-.2134	-.2434	-.2133

ALPHA(1,4) = 3.820 BETA(1,4) = -8.0851

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.3941	.3798	.4781	.5087	.4588
.025	.5106	.5394	.5356	.5403	.4151
.050	.4971	.5125	.5052	.5106	.4978
.100	.3993	.3928	.4234	.4182	.4674
.150	.2889	.3141	.3969	.3961	.4443
.200	.1901	.2488	.3012	.3453	.3821
.250	-.0871	-.0134	-.0074	-.0038	.0008
.300	-.0720	-.0321	-.0084	-.0271	-.0188
.350		-.0412	-.0182	-.0294	-.0148

ALPHA(1,4) = 3.820 BETA(1,4) = -4.040

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.5438	.5449	.5447	.5357	.5084
.025	.2983	.3944	.3829	.3706	.2980
.050	.3358	.4082	.3919	.3871	.3588
.100	.2758	.3106	.3189	.3209	.3434
.150	.1800	.2128	.2310	.2708	.3302
.200	.1012	.1314	.1923	.2087	.2183
.250	-.1297	-.1056	-.0753	-.0459	-.0417
.300	-.1491	-.1007	-.0743	-.0806	-.0808
.350		-.1088	-.0708	-.0902	-.0827

DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A1408 - VOL. 2

ARC37-716 1A14 01+712+81265+7111 LEFT VERTICAL (003312)

ALPHA(4) = 3.930 BETA(3) = -.070

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0820
X/CV	.000	.0148	.0873	.5786	.5363
.025	.0417	.1074	.0719	.0517	-.0110
.050	.1248	.1126	.0921	.0487	.0108
.150	.2883	.2366	.2206	.1803	.2071
.300	.1694	.1726	.2372	.1708	.2208
.500	.0819	.0789	.1109	.1344	.1413
.605	-.1321	-.1467	-.1122	-.0897	-.0806
.775	-.1388	-.1489	-.1266	-.1242	-.1056
.900		-.1514	-.1285	-.1304	-.1141

ALPHA(4) = 3.940 BETA(4) = 3.800

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0820
X/CV	.000	.3423	.5327	.5219	.4704
.025	-.0308	-.0823	-.1599	-.1301	-.1366
.050	-.0513	-.0838	-.1890	-.1532	-.1626
.150	-.0226	-.0297	-.0983	-.1021	-.0969
.300	.0480	.0091	.0090	-.0738	-.0486
.500	.0002	.0047	.0341	-.0496	-.0086
.605	-.1496	-.1774	-.1448	-.1799	-.1545
.775	-.1134	-.1828	-.1829	-.1862	-.1766
.900		-.1928	-.1721	-.1766	-.1736

ALPHA(4) = 3.940 BETA(5) = 7.821

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0820
X/CV	.000	.4093	.3773	.4316	.3973
.025	-.1334	-.1719	-.2090	-.1736	-.1609
.050	-.1802	-.1733	-.2066	-.2266	-.2317
.150	-.1320	-.1794	-.1866	-.236	-.1209
.300	-.1349	-.1337	-.1692	-.1697	-.1593
.500	-.0734	-.1223	-.1274	-.1409	-.1111
.605	-.1745	-.2043	-.2117	-.2446	-.2035
.775	-.1695	-.1982	-.2303	-.2561	-.2228
.900		-.1931	-.2244	-.2337	-.2317



0835129

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1414B - VOL. 2
ARCST-716 1414 Q1+712-SIENES-AT11 LEFT VERTICAL

ALPHA(1) = 0.090 BETA(1) = -0.070
SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4147	.3757	.3286	.3545	.3311
.025	.4790	.5345	.4842	.4749	.3817
.050	.4489	.5010	.4584	.4531	.4533
.100	.2723	.3593	.3864	.3976	.4557
.200	.1871	.2761	.3774	.3653	.3984
.300	.0828	.2134	.2767	.3184	.2776
.400	-.1391	-.0554	-.0145	-.0023	-.0196
.500	-.1393	-.0864	-.0209	-.0184	-.0193
.600		-.0845	-.0214	-.0150	-.0083

ALPHA(2) = 0.080 BETA(2) = -0.080
SECTION (2) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.3931	.3930	.4284	.4400	.4115
.025	.2813	.3336	.3374	.3550	.2486
.050	.2049	.3314	.3423	.3416	.3280
.100	.2808	.2545	.2796	.2912	.5115
.200	.1833	.1778	.2820	.2488	.2934
.300	.0715	.1057	.1034	.1899	.2013
.400	-.1208	-.1080	-.0837	-.0575	-.0490
.500	-.1311	-.1017	-.0871	-.0912	-.0701
.600		-.1014	-.0906	-.0948	-.0745

ALPHA(3) = 0.090 BETA(3) = -0.070
SECTION (3) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6118	.5082	.4888	.4888	.4437
.025	.0823	.0828	.0482	.0481	-.0108
.050	.1477	.0821	.0835	.0368	.0080
.100	.2034	.1793	.1715	.1494	.1926
.200	.1012	.1187	.1928	.1396	.1774
.300	.0220	.0368	.0886	.1076	.1141
.400	-.1366	-.1808	-.1257	-.1001	-.0900
.500	-.1378	-.1579	-.1384	-.1387	-.1159
.600		-.1595	-.1392	-.1438	-.1237

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 418

ARCS7-716 1A14 01+712+SIGNES+AT11 LEFT VERTICAL

0835412)

ALPHA01 9) = 0.090 BETAO (4) = 3.940

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4001	.4809	.4096	.3711	.4079
.025	.0057	-.0339	-.1002	-.1472	-.1622
.050	.0009	-.0369	-.1036	-.1717	-.2036
.100	.0407	-.0332	-.0622	-.1453	-.0859
.200	.0032	.0125	-.0096	-.1051	-.0837
.300	-.0224	-.0271	.0063	-.0277	-.0006
.400	-.1475	-.1684	-.1550	-.1722	-.1413
.500	-.1068	-.1796	-.1677	-.1982	-.1633
.600		-.1642	-.1774	-.2016	-.1657

ALPHA01 9) = 0.110 BETAO (9) = 7.940

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4209	.3690	.2853	.2554	.3270
.025	-.1155	-.1634	-.1680	-.2011	-.1922
.050	-.1252	-.1685	-.1939	-.2406	-.2567
.100	-.1533	-.1765	-.2019	-.2300	-.1555
.200	-.1603	-.1775	-.1722	-.2147	-.1813
.300	-.1366	-.1632	-.1596	-.1690	-.1594
.400	-.1938	-.2111	-.2189	-.2565	-.2234
.500	-.1090	-.1970	-.2245	-.2546	-.2376
.600		-.1999	-.1875	-.2036	-.2195



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 431

ARC97-710 1A14 OL-TIR-SI2M25

LEFT VERTICAL

(083413) (10 JAN 74)

REFERENCE DATA

JREF = 2.4210 36.FT. XMRP = 29.5800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -9.030

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/RY	.1500	.3100	.6000	.8400	.9230
H/CV					
.000	.7337	.6030	.6759	.6933	.6324
.025	.6202	.7233	.7412	.7373	.7233
.050	.7637	.6610	.7025	.6908	.6699
.100	.6271	.5743	.6133	.6139	.5946
.200	.4756	.5115	.5140	.5256	.4936
.300	.4129	.3985	.3373	.3496	.3042
.400	.3134	.3106	.3104	.3104	.3102
.500	.3175	.3163	.3149	.3163	.3163
.600	.3143	.3120	.3101	.3101	.3101

ALPHA(1) = -7.830 BETA(1) = -3.710

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/RY	.1500	.3100	.6000	.8400	.9230
H/CV					
.000	.6114	.7029	.7524	.7635	.7457
.025	.6223	.5347	.4899	.5368	.5109
.050	.6243	.5209	.4943	.5226	.5230
.100	.5131	.4228	.4367	.4677	.4676
.200	.3490	.3493	.3777	.4208	.3960
.300	.2996	.2706	.2610	.2883	.2307
.400	.2132	.2202	.2133	.2186	.2126
.500	.2159	.2156	.2043	.2249	.2304
.600	.2064	.2176	.2366	.2406	.2406

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
 RUDDER = .000 SPORKE = .000

(083013)

LEFT VERTICAL

ARC97-716 1A14 OR-T12-S12MS

ALPHA(1) = -7.840 BETA(3) = .150

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
Z/CV					
.000	.0002	.7655	.7601	.7612	.7713
.025	.2887	.1823	.0919	.0767	.0462
.050	.3634	.2237	.1081	.0761	.0693
.150	.4026	.3021	.2804	.2633	.3054
.300	.2638	.2229	.1954	.2537	.2598
.320	.1465	.1519	.1749	.1862	.1761
.615	.2467	.2760	.2441	.2497	.2269
.775	.2494	.2758	.2390	.2665	.2465
.900		.2669	.2414	.2759	.2414

ALPHA(1) = -7.860 BETA(4) = 4.220

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
Z/CV					
.000	.0026	.7292	.7396	.6855	.7272
.025	.3599	.0671	.3019	.3214	.3405
.050	.0294	.0758	.2567	.3227	.3661
.150	.8095	.0456	.1636	.2108	.1744
.300	.1689	.0849	.0487	.1305	.0919
.320	.0666	.0490	.1080	.1090	.0949
.605	.3067	.3184	.3036	.2612	.2151
.775	.2785	.3251	.2895	.2750	.2309
.900		.3181	.2825	.2753	.2252

ALPHA(1) = -7.880 BETA(5) = 8.150

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
Z/CV					
.000	.7315	.6277	.6495	.5619	.6237
.025	.0409	.1181	.2743	.3760	.3992
.050	.0500	.1275	.2480	.4195	.4707
.150	.0943	.1094	.1875	.3755	.2928
.300	.1040	.0916	.1271	.2937	.2430
.320	.0566	.0610	.0950	.1426	.1077
.605	.3267	.3136	.3503	.3696	.3359
.775	.3150	.3230	.3616	.3679	.3551
.900		.3429	.3422	.3679	.3464



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03V13)

LEFT VERTICAL

ARC2:-716 1A14 Q1+12+312N25

ALPHA(2) = -4.020 BETA(1) = -7.970

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6401	.5204	.5835	.5616	.5082
.025	.7249	.6437	.6582	.6414	.6461
.050	.6888	.5943	.6208	.6114	.6131
.100	.5441	.4906	.5382	.5259	.5230
.300	.3989	.4220	.4589	.4528	.4234
.500	.3415	.3345	.2834	.2956	.2585
.605	-.1533	-.1914	-.1839	-.2094	-.2049
.775	-.2030	-.1894	-.1667	-.2181	-.2166
.900		-.1702	-.1508	-.2188	-.2132

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7170	.6311	.6716	.6459	.6282
.025	.5243	.4614	.4126	.4448	.4266
.050	.5375	.4538	.4286	.4368	.4372
.100	.4256	.3577	.3712	.3675	.4093
.300	.2834	.2742	.3186	.3428	.3395
.500	.2023	.2089	.2167	.2261	.2090
.605	-.2398	-.2484	-.2151	-.2393	-.2254
.775	-.2524	-.2355	-.2141	-.2526	-.2423
.900		-.2388	-.2073	-.2533	-.2519

ALPHA(2) = -4.030 BETA(3) = .300

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7317	.7009	.7013	.6442	.6008
.025	.1800	.1130	-.0026	-.0070	-.0563
.050	.1916	.1097	.0243	-.0151	-.0357
.100	.3272	.2337	.2136	.2010	.2309
.300	.1939	.1498	.1441	.1818	.1957
.500	.0918	.0836	.1142	.1088	.1289
.605	-.2910	-.3031	-.2702	-.2983	-.2903
.775	-.2323	-.3067	-.2482	-.3132	-.2888
.900		-.3051	-.2681	-.3230	-.2878

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(MBSW3)

LEFT VERTICAL

ARCS7-716 1A14 Q1-T18+312NCS

ALPHA(2) = -4.030 BETA(4) = 4.120

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7030	.6346	.6920	.9036	.6374
.025	-.0160	-.1222	-.3209	-.3343	-.3567
.050	-.0366	-.1248	-.2622	-.3395	-.3677
.150	.1449	-.0016	-.1909	-.2446	-.1948
.300	.1236	.0390	.0165	-.1960	-.1069
.500	.0094	-.0046	.0706	.0795	.0862
.605	-.3244	-.3473	-.2991	-.2623	-.2311
.775	-.2964	-.3500	-.2926	-.2956	-.2443
.900		-.3190	-.2926	-.2963	-.2496

ALPHA(2) = -4.030 BETA(5) = 7.990

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6926	.5901	.5704	.4769	.3176
.025	-.1068	-.1674	-.2972	-.4068	-.4392
.050	-.1168	-.1671	-.3066	-.4533	-.5155
.150	-.1360	-.1642	-.2207	-.4196	-.3165
.300	.0395	-.1447	-.1625	-.3467	-.2856
.500	-.0120	-.1160	-.1297	-.2966	-.1639
.605	-.3938	-.3476	-.3633	-.4244	-.3773
.775	-.3226	-.3372	-.3676	-.4356	-.3947
.900		-.3719	-.3643	-.4462	-.3927

ALPHA(3) = -.190 BETA(1) = -8.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5979	.4360	.5062	.4710	.4143
.025	.6620	.5771	.5666	.5773	.5767
.050	.6431	.5300	.5499	.5400	.5490
.150	.5007	.4277	.4722	.4653	.4717
.300	.3411	.3566	.4067	.3946	.3762
.500	.2983	.3075	.2994	.2962	.2259
.605	-.1735	-.1667	-.2006	-.2227	-.2156
.775	-.2092	-.1900	-.1859	-.2350	-.2255
.900		-.1814	-.1637	-.2364	-.2229



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083V131

LEFT VERTICAL

ARC97-716 1A14 01-718+518MS

ALPHA(3) = -.176 BETA(2) = -3.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .0870 .2412 .6063 .5669 .5669
.025 .4633 .4166 .3801 .3966 .3775
.030 .4777 .4083 .3873 .3962 .3946
.150 .3753 .3129 .3318 .3503 .3643
.300 .2335 .2296 .2871 .3087 .3003
.520 .1622 .1735 .1903 .1992 .1824
.663 .2335 .2432 .2239 .2463 .2341
.775 .2469 .2506 .2213 .2626 .2516
.900 .2459 .2150 .2623 .2603

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .0472 .0265 .0215 .3725 .5696
.025 .1077 .1041 .0366 .0363 .0053
.030 .1442 .1024 .0377 .0376 .0199
.150 .8737 .8018 .1911 .1915 .2296
.300 .1934 .1254 .1310 .1476 .1666
.520 .0641 .0744 .0909 .1019 .0952
.663 .2696 .3029 .2711 .2684 .2661
.775 .2217 .3016 .2725 .3071 .2667
.900 .2629 .2726 .3094 .2501

ALPHA(3) = -.200 BETA(4) = 4.120

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .0201 .9791 .5769 .5383 .5623
.025 .0330 .1391 .3013 .2840 .3364
.030 2.0678 .1447 .2936 .3066 .3307
.150 .0846 .0064 .1563 .2072 .1819
.300 .0942 .0159 .0343 .0661 .0632
.520 .0100 .0016 .0791 .0577 .1072
.663 .2870 .3225 .2914 .2834 .2441
.775 .2667 .3182 .2994 .3118 .2907
.900 .2774 .2694 .3135 .2663

DATE 27 JAN 75. TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR-T12-S12N25 LEFT VERTICAL 003V13)

ALPHA(1 3) = -.210 BETA(1 3) = 0.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0250
X/CV					
.000	.0197	.4006	.4844	.3602	.4359
.025	-.1778	-.1906	-.3056	-.4066	-.4393
.050	-.1692	-.2005	-.3185	-.4563	-.5057
.075	-.1716	-.1945	-.2320	-.4299	-.5365
.100	.0006	-.1706	-.1600	-.3526	-.3169
.125	-.0499	-.1351	-.1675	-.2463	-.1865
.150	-.3481	-.3591	-.3635	-.4276	-.3999
.175	-.3027	-.3617	-.3690	-.4470	-.4041
.200		-.3907	-.3900	-.4490	-.4027

ALPHA(1 4) = 3.930 BETA(1 4) = -6.070

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0250
X/CV					
.000	.5483	.5935	.4042	.3621	.3202
.025	.0035	.5080	.4927	.5046	.5012
.050	.9629	.4676	.4656	.4751	.4623
.075	.4154	.3925	.3965	.4039	.4065
.100	.2997	.2656	.3379	.3407	.3179
.125	.2708	.2494	.1894	.2144	.1774
.150	-.2138	-.2215	-.2311	-.2270	-.2425
.175	-.2238	-.2108	-.2136	-.2425	-.2469
.200		-.2208	-.1908	-.2432	-.2451

ALPHA(1 4) = 3.910 BETA(1 4) = -4.080

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.0250
X/CV					
.000	.9562	.4933	.5387	.4671	.4670
.025	.3783	.3286	.2757	.2936	.2693
.050	.3763	.3206	.2917	.2946	.3007
.075	.2920	.2424	.2637	.2646	.2623
.100	.1815	.1712	.2275	.2283	.2377
.125	.1170	.1248	.1328	.1334	.1305
.150	-.2096	-.2096	-.2368	-.2024	-.2386
.175	-.2427	-.2703	-.2582	-.3005	-.2756
.200		-.2600	-.2476	-.3016	-.2856



DATE 27 JUN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0031V133

LEFT VERTICAL

ARC97-716 1A14 ON-TIE-SIEMES

ALPHAO(4) = 3.910 BETA0(3) = -.190

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5010	.5441	.5237	.4745	.4830
.025	-.0037	.0496	-.0019	.0040	-.0220
.050	.0300	.0546	.0177	-.0110	-.0216
.100	.2129	.1453	.1410	.1317	.1780
.150	.0991	.0732	.0856	.0941	.1254
.200	.0230	.0306	.0468	.0514	.0541
.250	-.3084	-.3243	-.2925	-.3114	-.2861
.300	.775	-.2412	-.3236	-.2946	-.3354
.350		-.3104	-.2936	-.3300	-.3120

ALPHAO(4) = 3.920 BETA0(4) = 4.060

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5014	.5115	.5128	.4910	.4794
.025	-.0297	-.1133	-.2727	-.2926	-.3440
.050	.0323	-.1238	-.2707	-.3189	-.3433
.100	.0512	-.0098	-.0308	-.2332	-.1914
.150	.0730	.0273	.0084	-.0100	.0033
.200	-.0291	-.0267	.0229	.0010	.0001
.250	-.2224	-.3001	-.3129	-.3199	-.2795
.300	.775	-.2131	-.3233	-.3304	-.3533
.350		-.2009	-.3350	-.3540	-.3017

ALPHAO(4) = 3.930 BETA0(5) = 6.090

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5478	.4284	.4036	.3967	.3864
.025	-.2243	-.2517	-.3187	-.4143	-.4323
.050	.2321	-.2560	-.3279	-.4833	-.4936
.100	-.2408	-.2543	-.2874	-.4513	-.3554
.150	.0232	-.2172	-.2270	-.3638	-.3511
.200	-.1095	-.1834	-.2016	-.2471	-.1758
.250	.003	-.3217	-.3794	-.3732	-.4407
.300	.775	-.2480	-.3200	-.3904	-.4053
.350		-.3316	-.4021	-.4870	-.4189

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(883V13)

LEFT VERTICAL

ARC97-716 1A14 CR-112-S18MS

ALPHA(1) = 0.040 BETA(1) = -0.170

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
N/CV					
.000	.5017	.3491	.3548	.3086	.2454
.025	.4991	.4843	.4425	.4347	.4301
.050	.4848	.4180	.4124	.4086	.4139
.100	.3353	.2998	.3436	.3447	.3595
.200	.1306	.2177	.2980	.2861	.2716
.300	.1376	.1905	.1838	.1732	.1502
.400	-.2895	-.2380	-.2398	-.2440	-.2523
.500	-.2832	-.2303	-.2217	-.2636	-.2539
.600		-.2572	-.1985	-.2553	-.2500

ALPHA(1) = 5.080 BETA(1) = -4.181

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
N/CV					
.000	.6834	.4936	.4554	.4185	.3648
.025	.2734	.2875	.2199	.2380	.2157
.050	.3446	.2968	.2401	.2397	.2404
.100	.2309	.2146	.2070	.2081	.2318
.200	.1898	.1321	.1751	.1755	.1828
.300	.1705	.0832	.0878	.0922	.0868
.400	-.1799	-.2876	-.2707	-.2890	-.2769
.500	-.2132	-.2819	-.2588	-.3126	-.2952
.600		-.2939	-.2485	-.3116	-.3049

ALPHA(1) = 0.080 BETA(1) = -.230

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
N/CV					
.000	.5384	.4889	.4495	.3886	.3743
.025	-.0919	.0800	-.0292	-.0315	-.0568
.050	-.0798	.0350	-.0083	-.0332	-.0402
.100	.1881	.1093	.0920	.0819	.1182
.200	.0886	.0467	.0238	.0535	.0830
.300	-.0053	.0014	.0148	.0142	.0202
.400	-.2877	-.3843	-.3080	-.3236	-.2957
.500	-.2317	-.3318	-.3110	-.3509	-.3181
.600		-.2993	-.3087	-.3548	-.3238



(RDSV13)

DATE: 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2
 ARCS7-716 1A14 CH+718+818+81

LEFT VERTICAL

ALPHA: 8) = 0.000 BETA: (4) = 4.070

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250	
X/CV	.000	.9949	.9103	.4342	.3593	.3655
.025	.0144	-.1162	-.2177	-.2911	-.3199	-.3199
.050	.0747	-.1321	-.2353	-.3118	-.3326	-.3326
.100	.1741	-.0402	-.0366	-.2338	-.2119	-.2119
.200	.4718	.0155	-.0130	-.0412	.0237	.0237
.300	-.0370	-.0326	-.0094	-.0396	.0111	.0111
.400	-.2832	-.3816	-.3305	-.3430	-.3034	-.3034
.500	-.775	-.2343	-.3234	-.3725	-.3750	-.3100
.600		-.2692	-.3436	-.3642	-.3243	-.3243

ALPHA: 9) = 0.000 BETA: (5) = 0.180

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250	
X/CV	.000	.4792	.3681	.3424	.2078	.2442
.025	-.1307	-.2226	-.3211	-.4119	-.4496	-.4496
.050	-.1608	-.2223	-.3308	-.4500	-.4917	-.4917
.100	.0530	-.2316	-.2959	-.4710	-.3999	-.3999
.200	.0802	-.2017	-.2372	-.3495	-.3620	-.3620
.300	-.1717	-.1388	-.2146	-.2860	-.1903	-.1903
.400	-.3228	-.4232	-.3783	-.4566	-.3902	-.3902
.500	-.775	-.2829	-.3411	-.3962	-.4790	-.4210
.600		-.3012	-.4088	-.4687	-.4283	-.4283

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(H83W14) (18 JAN 74)

LEFT VERTICAL

ARC87-716 1A14 Q1+718+822M25

PARAMETRIC DATA

MACH = 2.200 ELEVAT = .000
RUDDER = .000 SPDRBK = .000

REFERENCE DATA

WREF = 2.4210 94.FT. WREF = 29.5607 INCHES
LREF = 36.7090 INCHES YREF = .0000 INCHES
BREF = 36.7090 INCHES ZREF = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.870 BETA(1) = -7.830

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV .1500 .3100 .6000 .8400 .9250

X/CV
.0000 .7991 .6616 .8224 .8651 .7996
.0825 .8396 .8094 .7664 .7680 .7442
.0300 .8486 .7600 .7571 .7491 .7424
.1500 .7113 .6439 .6531 .6666 .6757
.3000 .5219 .5183 .5724 .5667 .5645
.5000 .3670 .4360 .4711 .5143 .4738
.6625 .0117 .0545 .0548 .0677 .0572
.7750 .0181 .0423 .0593 .0480 .0444
.9000 .0279 .0607 .0205 .0205 .0334

ALPHA(1) = -7.880 BETA(2) = -3.870

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV .1500 .3100 .6000 .8400 .9250

X/CV
.0000 .6377 .6363 .8218 .8316 .8949
.0825 .5914 .6184 .9008 .5466 .4694
.0300 .7808 .6340 .5676 .5749 .5510
.1500 .6101 .5334 .5229 .5341 .5534
.3000 .4304 .4137 .4579 .4769 .4836
.5000 .3042 .3198 .3543 .3878 .3622
.6625 -.0322 -.0138 -.0038 .0155 .0129
.7750 -.0269 -.0187 -.0048 -.0028 -.0069
.9000 -.0307 -.0082 -.0187 -.0187 -.0195



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-T18-S12N5 LEFT VERTICAL (M83V14)

ALPHA(1) = -7.000 BETA(3) = .180

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.8045	.8036	.8548	.9391	.9156
.025	.1912	.2925	.1715	.1203	.6476
.050	.1974	.2806	.2020	.1377	.0912
.150	.3099	.4261	.3990	.3582	.2799
.300	.3800	.3268	.3425	.3409	.3636
.500	.2260	.2372	.2662	.2941	.2999
.665	-.0762	-.0763	-.0434	-.0321	-.0160
.775	-.1029	-.0767	-.0570	-.0569	-.0421
.900	-.0926	-.0611	-.0664	-.0555	

ALPHA(1) = -7.000 BETA(4) = 4.040

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7906	.8277	.8673	.8931	.8966
.025	-.0255	-.0228	-.0969	-.0532	-.0617
.050	-.0187	-.0216	-.0510	-.0320	-.0766
.150	.2751	.1416	.0370	.0256	.0710
.300	.8061	.2715	.1120	.0966	.0934
.500	.1601	.1597	.8002	.0729	.1389
.665	-.1120	-.1203	-.0833	-.1324	-.0901
.775	-.1290	-.1161	-.1000	-.1366	-.1096
.900	-.1893	-.1044	-.1173	-.1115	

ALPHA(1) = -8.000 BETA(5) = 8.100

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7264	.6932	.7634	.7448	.7693
.025	-.0764	-.1021	-.1613	-.1226	-.1163
.050	-.0629	-.1024	-.1369	-.1630	-.1727
.150	-.0228	-.0956	-.1054	-.1025	-.0561
.300	.0433	-.0359	-.0563	-.0715	-.0561
.500	.1191	.0166	.0348	-.0373	.0071
.665	-.1408	-.1224	-.1646	-.2009	-.1496
.775	-.1961	-.1304	-.1667	-.2103	-.1691
.900	-.1416	-.1702	-.2168	-.1620	

083924)

LEFT VERTICAL

ARCST-716 1A14 01+712+81285

ALPHA(1 2) = -4.030 BETA(1 1) = -7.790

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/4V

.000	.8447	.5014	.8632	.7371	.6784
.025	.7196	.6095	.6721	.6730	.6579
.050	.6093	.6027	.6463	.6405	.6318
.100	.5008	.5379	.5439	.5745	.5964
.200	.4249	.4365	.4808	.5126	.5201
.300	.3032	.3911	.4039	.4294	.4131
.400	.0161	.0129	.0281	.0454	.0301
.500	.775	.0109	.0037	.0322	.0151
.600		.0096	.0493	.0094	.0109

ALPHA(1 2) = -4.030 BETA(1 2) = -3.840

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/4V

.000	.7349	.7824	.7707	.7840	.7576
.025	.4529	.5696	.4787	.4539	.4138
.050	.5945	.5442	.4932	.4748	.4636
.100	.5042	.4574	.4343	.4373	.4739
.200	.3630	.3431	.3766	.3683	.4057
.300	.2374	.2480	.2895	.3069	.3149
.400	.0629	.0570	.0296	.0198	.0133
.500	.775	.0877	.0590	.0281	.0444
.600		.0828	.0327	.0376	.0417

ALPHA(1 2) = -6.040 BETA(1 3) = .040

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/4V

.000	.6008	.7799	.8049	.8016	.7829
.025	.0968	.2253	.1100	.0913	.0154
.050	.1374	.2146	.1401	.0923	.0506
.100	.4133	.3588	.3837	.3933	.1892
.200	.2836	.2821	.2810	.2739	.2921
.300	.1839	.1806	.2143	.2365	.2360
.400	.0951	.1110	.1084	.0895	.0515
.500	.775	.1894	.1075	.0838	.0807
.600		.1163	.0886	.0672	.0793



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

00030141

LEFT VERTICAL

ARC87.716 1A14 01-712-S12M3

ALPHAO(2) = -4.040 BETA0 (4) = 3.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.7008	.7321	.7355	.7302	.7260
.025	-.0707	-.1083	-.1227	-.0714	-.0765
.050	-.0562	-.0821	-.0686	-.0789	-.0946
.100	.1615	.0353	-.0160	-.0139	.0215
.200	.1995	.1964	.0566	.0111	.0379
.300	.0965	.0960	.1471	.0275	.0811
.400	-.1359	-.1420	-.1067	-.1403	-.1211
.500	-.1390	-.1442	-.1210	-.1549	-.1405
.600	-.1517	-.1265	-.1429	-.1403	

LPMAO(2) = -4.080 BETA0 (5) = 7.980

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.6136	.5733	.6351	.6142	.6645
.025	-.1003	-.1108	-.1677	-.1430	-.1374
.050	-.1054	-.1249	-.1553	-.1888	-.1955
.100	.0641	.1239	.1376	-.1405	-.0600
.200	.0314	-.0697	-.0896	-.1136	-.0768
.300	.0596	-.0322	-.0114	-.0764	-.0394
.400	-.1366	-.1513	-.1805	-.2170	-.1692
.500	-.1777	-.1559	-.1628	-.2298	-.1869
.600	-.1709	-.1944	-.2324	-.1900	

ALPHAO(3) = -3.180 BETA0 (1) = -7.610

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
K/CV					
.000	.8945	.8000	.6089	.6105	.5537
.025	.8636	.5942	.5986	.5734	.5037
.050	.9341	.5995	.5708	.5921	.5535
.100	.1539	.4806	.4775	.4844	.5119
.200	.3318	.3226	.4213	.4308	.4465
.300	.2448	.2948	.3565	.3624	.3595
.400	-.0423	-.0186	.0044	.0007	.0046
.500	-.0392	-.0263	.0169	-.0200	-.0033
.600	-.0366	.0181	-.0176	-.0056	

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003V14)

LEFT VERTICAL

ALPHA(1) = -.180 BETA(2) = -3.880

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6445	.6384	.6401	.6701	.6333
.025	.3541	.4265	.4277	.4066	.3693
.050	.4744	.4780	.4378	.4148	.4032
.100	.4170	.3975	.3777	.3753	.3937
.150	.2969	.2938	.3224	.3276	.3412
.200	.1778	.1974	.2288	.2325	.2389
.250	.1048	-.0030	-.0521	-.0325	-.0351
.300	.1210	-.0890	-.0572	-.0621	-.0518
.350		-.0900	-.0591	-.0718	-.0591

ALPHA(1) = -.180 BETA(3) = .040

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6160	.6050	.6691	.6716	.6334
.025	.0392	.1722	.0632	.0607	-.0099
.050	.1613	.1722	.1124	.0537	.0160
.100	.3397	.3016	.2702	.1904	.1512
.150	.2265	.2184	.2308	.2112	.2376
.200	.1161	.1227	.1603	.1763	.1674
.250	.1303	-.1191	-.0868	-.0785	-.0645
.300	.1472	-.1249	-.1026	-.1115	-.0961
.350		-.1358	-.1087	-.1166	-.0985

ALPHA(1) = -.200 BETA(4) = 4.050

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6131	.6408	.6137	.5991	.6852
.025	-.0245	-.1336	-.1466	-.1077	-.1097
.050	-.0009	-.0900	-.1221	-.1211	-.1353
.100	.0826	-.0451	-.0508	-.0646	-.0137
.150	.1008	.1241	-.0102	-.0418	-.0074
.200	.0482	.0365	.0430	-.0254	.0278
.250	-.1537	-.1610	-.1265	-.1736	-.1411
.300	-.1770	-.1645	-.1360	-.1645	-.1613
.350		-.1745	-.1451	-.1640	-.1600



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 423

RDSV141

LEFT VERTICAL

ARC97-716 1A14 CL+718+512MS

ALPHAO(3) = -.190 BETAO (3) = 8.040

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
N/CV					
.000	.5470	.4764	.5510	.4980	.5412
.025	-.1135	-.1431	-.1977	-.1617	-.1571
.050	-.1198	-.1443	-.1943	-.2067	-.2157
.100	-.0903	-.1521	-.1544	-.1656	-.1090
.200	-.0523	-.0881	-.1315	-.1368	-.1088
.300	-.0012	-.0743	-.0697	-.1082	-.0736
.400	-.1731	-.1772	-.1936	-.2263	-.1649
.500	-.1874	-.1604	-.2107	-.2401	-.2027
.600		-.1935	-.2136	-.2432	-.2127

ALPHAO(4) = 3.930 BETAO (1) = -7.910

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
N/CV					
.000	.3618	.4088	.4804	.5113	.4502
.025	.4854	.5294	.5293	.5248	.5108
.050	.4801	.4828	.5010	.5012	.5036
.100	.3632	.3606	.4184	.4406	.4843
.200	.2984	.2947	.3735	.3901	.4088
.300	.2046	.2433	.2855	.3380	.3291
.400	-.0823	-.0093	-.0091	-.0035	-.0082
.500	-.0727	-.0237	-.0264	-.0298	-.0163
.600		-.0405	-.0156	-.0237	-.0179

ALPHAO(4) = 3.930 BETAO (2) = -3.960

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
N/CV					
.000	.5418	.5988	.5323	.5407	.5102
.025	.5990	.5997	.5649	.5636	.5399
.050	.5371	.5982	.5804	.5812	.5534
.100	.5913	.5149	.5233	.5151	.5456
.200	.1897	.2169	.2669	.2701	.2892
.300	.1095	.1380	.1888	.2017	.2184
.400	-.1233	-.1015	-.0741	-.0423	-.0498
.500	-.1448	-.1005	-.0780	-.0875	-.0618
.600		-.1059	-.0702	-.0928	-.0881

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0083V141

LEFT VERTICAL

ARC37-716 1A14 CR+T18+SIENES

ALPHA(1 4) = 3.940 BETA(1 3) = .030

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.0000	.5674	.5702	.5699	.5420	.5290
.025	.0279	.1007	.0672	.0456	-.0047
.050	.0966	.1012	.0827	.0345	.0090
.150	.2751	.2592	.2196	.1659	.1456
.300	.1750	.1656	.1911	.1717	.1922
.500	.0699	.0647	.1155	.1366	.1456
.665	-.1483	-.1414	-.1112	-.0880	-.0848
.775	-.1606	-.1431	-.1257	-.1227	-.1056
.900		-.1466	-.1266	-.1275	-.1132

ALPHA(1 4) = 3.940 BETA(1 4) = 3.960

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.0000	.5260	.5594	.5235	.4661	.5012
.025	-.0169	-.0664	-.1575	-.1359	-.1369
.050	-.0237	-.0696	-.1266	-.1574	-.1712
.150	-.0160	-.0096	-.1037	-.1046	-.0570
.300	.0307	.0013	-.0024	-.0749	-.0497
.500	.0025	.0013	.0357	-.0510	-.0166
.665	-.1446	-.1734	-.1459	-.1799	-.1540
.775	-.1601	-.1735	-.1623	-.1796	-.1756
.900		-.1843	-.1706	-.1760	-.1668

ALPHA(1 4) = 3.950 BETA(1 5) = 6.080

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.0000	.4008	.3693	.4329	.4014	.4493
.025	-.1495	-.1692	-.2043	-.1784	-.1726
.050	-.1541	-.1712	-.1960	-.2277	-.2537
.150	-.1317	-.1736	-.1650	-.1943	-.1310
.300	-.1346	-.1597	-.1659	-.1709	-.1444
.500	-.0760	-.1262	-.1164	-.1416	-.1126
.665	-.1602	-.2063	-.2166	-.2472	-.2057
.775	-.1631	-.2527	-.2504	-.2571	-.2212
.900		-.2042	-.2262	-.2526	-.2302



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83V64)

LEFT VERTICAL

ARC07-716 1A14 C1+718-312MS

ALPHA(3) = 8.000 BETA(1) = -8.020

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4153	.3684	.3413	.3702	.3367
.025	.4633	.5375	.4773	.4803	.4791
.050	.4413	.4942	.4927	.4827	.4718
.100	.2919	.3689	.3684	.4032	.4344
.200	.1800	.2630	.3317	.3804	.3733
.300	.0774	.2108	.2776	.3114	.2810
.400	-.1300	-.0579	-.0133	-.0137	-.0236
.500	-.1775	-.0863	-.0186	-.0250	-.0253
.600	-.1290	-.0823	-.0215	-.0171	-.0108

ALPHA(3) = 8.000 BETA(2) = -4.000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.3776	.4132	.4301	.4591	.4158
.025	.2776	.3270	.3301	.3476	.3203
.050	.2807	.3261	.3472	.3356	.3258
.100	.2515	.2559	.2809	.2884	.3123
.200	.1624	.1763	.2351	.2439	.2617
.300	.0625	.1113	.1613	.1806	.2045
.400	-.1182	-.1053	-.0816	-.0606	-.0551
.500	-.1245	-.1029	-.0834	-.0932	-.0662
.600	-.0968	-.0876	-.0945	-.0745	

ALPHA(3) = 8.000 BETA(3) = .000

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6002	.5073	.4974	.4896	.4428
.025	.0440	.0496	.0872	.0234	-.0181
.050	.1276	.0697	.0451	.0177	-.0086
.100	.1974	.1731	.1630	.1167	.1559
.200	.1084	.1095	.1512	.1363	.1619
.300	.0302	.0479	.0934	.1077	.1226
.400	-.1488	-.1341	-.1160	-.0952	-.0862
.500	-.1322	-.1351	-.1313	-.1353	-.1056
.600	-.1353	-.1325	-.1391	-.1130	

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0833V14)

LEFT VERTICAL

ARC37-716 1A14 01+718+312MS

ALPHA(5) = 0.090 BETA(4) = 4.010

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
W/CV					
.000	.4312	.4574	.4076	.3795	.4104
.025	.19	-.0315	-.0994	-.1446	-.1613
.050	.0361	-.0351	-.1042	-.1608	-.2033
.100	-.0041	-.0332	-.0690	-.1454	-.0693
.300	-.0034	.0003	-.0323	-.1003	-.0993
.500	-.0133	-.0378	.0069	-.0234	.0149
.600	-.1436	-.1770	-.1540	-.1731	-.1439
.775	-.1792	-.1798	-.1661	-.1987	-.1653
.800		-.1857	-.1777	-.2026	-.1864

ALPHA(5) = 0.110 BETA(5) = 0.080

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
W/CV					
.000	.4183	.3663	.3046	.2526	.3232
.025	-.1233	-.1674	-.1802	-.2071	-.1991
.050	-.1330	-.1717	-.1900	-.2500	-.2628
.100	-.1687	-.1817	-.2044	-.2355	-.1593
.300	-.1719	-.1814	-.1743	-.2172	-.1853
.500	-.1446	-.1705	-.1807	-.1912	-.1678
.600	-.1945	-.2071	-.2204	-.2647	-.2271
.775	-.1916	-.2037	-.2323	-.2635	-.2407
.800		-.2095	-.1925	-.2211	-.2317



0858111 (10 JAN 74)

ARC97-716 1A14 CL-712-312125-AT111 RIGHT VERTICAL

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPDRNK = .000

REFERENCE DATA

SRP = 2.4210 36.71. YMRP = 29.5800 INCHES
LRP = 36.7050 INCHES YMRP = .0000 INCHES
BRP = 36.7050 INCHES YMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.950 BETA(1) = -7.970

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/V	.1500	.3100	.6000	.8400	.9250
X/CV	.7864	.8002	.6705	.6769	.6503
.000	.0794	-.1300	-.2657	-.3052	-.3036
.150	-.1870	-.1394	-.2196	-.3032	-.3357
.300	-.1091	-.1163	-.1694	-.2907	-.2535
.450	-.0579	-.0768	-.1723	-.1625	-.1223
.600	-.3315	-.2992	-.3292	-.3367	-.3536
.750	-.2615	-.3283	-.3285	-.3708	-.3682
.900	-.3396	-.2894	-.3793	-.3542	

ALPHA(1) = -7.950 BETA(2) = -4.300

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/V	.1500	.3100	.6000	.8400	.9250
X/CV	.7778	.8007	.7500	.7668	.7556
.000	.0235	-.0794	-.2636	-.3156	-.3051
.150	.1170	-.0327	-.2211	-.2418	-.1926
.300	.1507	.0542	.0195	-.1561	-.0916
.450	.0587	.0447	.0715	.0137	-.0026
.600	-.3178	-.2925	-.2025	-.2530	-.2602
.750	-.2294	-.2945	-.2993	-.2609	-.2566
.900	-.2766	-.2666	-.3010	-.2364	

ALPHA(1) = -7.950 BETA(3) = -.130

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/V	.1500	.3100	.6000	.8400	.9250
X/CV	.8003	.7805	.7854	.7828	.7687
.000	.2372	.1515	.0645	-.0108	-.0302
.150	.3698	.2776	.2264	.2570	.3150
.300	.2924	.2036	.2177	.2598	.2408
.450	.1369	.1637	.1458	.1337	.1098
.600	-.2607	-.2498	-.2454	-.2076	-.2142

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ARC37-716 1A14 Q4-718-31829-AT11 RIGHT VERTICAL (MSR11)

ALPHA(1) = -7.980 BETA(3) = -.130
SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .9250

X/CV

.775 -.8384 -.8743 -.8392 -.8515 -.8386
.000 -.8703 -.8838 -.8675 -.8480

ALPHA(1) = -7.970 BETA(4) = 3.010

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .9250

X/CV

.000 .7783 .7372 .7408 .7134 .7407
.050 .6022 .5092 .4727 .4829 .5029
.150 .4877 .4124 .3945 .4491 .4954
.300 .3449 .3317 .3616 .4131 .3677
.500 .8967 .8781 .8416 .8178 .8115
.665 -.8107 -.8013 -.8069 -.8127 -.8156
.775 -.8046 -.8142 -.8092 -.8126 -.8117
.000 -.8184 -.8194 -.8126 -.8126 -.8172

ALPHA(1) = -7.980 BETA(5) = 7.700

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .9250

X/CV

.000 .7122 .6471 .6704 .5925 .6415
.050 .7441 .6332 .6635 .6431 .6348
.150 .9940 .9417 .9422 .9036 .9117
.300 .4327 .4846 .5012 .5201 .4537
.500 .3735 .3799 .3036 .5106 .8613
.665 -.1477 -.1540 -.1515 -.1454 -.1707
.775 -.1609 -.1676 -.1634 -.1775 -.1833
.000 -.1595 -.1617 -.1597 -.1597 -.1592

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14S - VOL. 2

ARC97-716 1A14 Q1+712+SIENES+AT11 RIGHT VERTICAL (083011)

ALPHA(1) = -4.030 BETA(1) = -7.920

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.6473	.5226	.3904	.5727	.5186
.050	-.1312	-.1660	-.2692	-.4136	-.4214
.100	-.1707	-.1797	-.2937	-.4184	-.3838
.150	.0630	-.1625	-.2007	-.3439	-.2961
.200	.0000	-.1234	-.2123	-.2514	-.2002
.250	-.3445	-.3190	-.3700	-.3787	-.3939
.300	-.2820	-.3329	-.3755	-.4145	-.4088
.350	-.3571	-.3318	-.4229	-.3984	

ALPHA(2) = -4.030 BETA(2) = -4.110

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7008	.6182	.6008	.6002	.6594
.050	-.0229	-.1121	-.2745	-.3009	-.3049
.100	.0724	-.0539	-.2348	-.2419	-.1900
.150	.1124	.0080	.0173	-.1092	-.1029
.200	.0187	.0067	.0419	.0323	.0302
.250	-.3215	-.2920	-.2684	-.2481	-.2927
.300	-.2078	-.3068	-.2964	-.2856	-.2527
.350	-.2703	-.2578	-.3013	-.2908	

ALPHA(3) = -4.030 BETA(3) = -.140

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/0V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7805	.7093	.7070	.6376	.6883
.050	.1900	.1227	.0414	-.0326	-.0880
.100	.3258	.2276	.1900	.1943	.2399
.150	.1940	.1481	.1080	.8001	.1888
.200	.0483	.1104	.0999	.0888	.1132
.250	-.2919	-.2734	-.2638	-.2381	-.2373
.300	-.2198	-.2945	-.2563	-.2810	-.2598
.350	-.2971	-.2410	-.2903	-.2693	

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 432

(MDSHET)

ARC87-716 1A14 01-T12-SIGNE-AT11 RIGHT VERTICAL

ALPHA(2) = -4.030 BETA(4) = 3.700

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.000	.0002	.0022	.0037	.0099	.0414
.030	.0112	.4340	.4124	.4106	.4401
.150	.4159	.3400	.3276	.3031	.4371
.300	.2790	.2714	.3150	.3573	.3174
.500	.1994	.2001	.1935	.1752	.1656
.600	.2236	.2327	.2132	.1884	.2003
.775	.2170	.2367	.1940	.2357	.2302
.900		.2456	.1824	.2314	.2577

ALPHA(2) = -4.040 BETA(3) = 7.760

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.000	.0035	.0085	.0770	.4074	.5362
.030	.0301	.0092	.0008	.0060	.5026
.150	.0093	.4007	.4703	.5100	.5412
.300	.3745	.4055	.4357	.4566	.3905
.500	.3112	.3159	.2544	.2920	.2120
.600	.1800	.1016	.1749	.1016	.1006
.775	.1087	.1009	.1503	.1984	.2002
.900		.1012	.1354	.1792	.2205

ALPHA(3) = -.800 BETA(1) = -7.920

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.000	.0000	.0431	.5059	.4706	.4313
.030	.2017	.2033	.3040	.4857	.4316
.150	.1977	.2148	.2508	.4363	.4156
.300	.0706	.1944	.2220	.3541	.3233
.500	.0320	.1500	.2300	.2503	.2204
.600	.3421	.3371	.3045	.3071	.4056
.775	.2439	.3000	.3059	.4290	.4178
.900		.3308	.3375	.4417	.4099



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(MS3811)

ARC97-75 1A14 Q1712-3125-4711 RIGHT VERTICAL

ALPHA(1) = -.200 BETA(2) = -4.100

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV
 .000 .0229 .5418 .9204 .9954 .9751
 .050 -.0596 -.1096 -.2308 -.2879 -.3010
 .150 .0208 -.0499 -.1675 -.2382 -.1928
 .300 .1171 .0300 .0307 -.0644 -.0995
 .500 .0226 .0393 .0237 .0169 .0714
 .600 .2079 -.3028 -.2998 -.2598 -.2507
 .775 -.1764 -.3187 -.2931 -.3029 -.2920
 .900 -.2759 -.2908 -.3125 -.2910

ALPHA(1) = -.210 BETA(3) = -.170

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV
 .000 .6317 .6270 .6190 .5778 .5788
 .050 .1291 .0859 -.0067 -.0479 -.0585
 .150 .2878 .1787 .1143 .1947 .2264
 .300 .1488 .0966 .1082 .1768 .1541
 .500 .0492 .0634 .0520 .0583 .0911
 .600 .2989 -.3037 -.2944 -.2409 -.2344
 .775 -.1854 -.3235 -.2863 -.2803 -.2774
 .900 -.3027 -.2472 -.2549 -.2691

ALPHA(1) = -.210 BETA(4) = 3.810

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV
 .000 .6098 .5953 .5729 .5103 .5745
 .050 .4375 .3711 .3568 .3441 .3918
 .150 .3451 .2887 .2863 .3174 .3933
 .300 .2244 .2008 .2013 .2988 .2782
 .500 .1450 .1266 .1483 .1337 .1412
 .600 .2793 -.2987 -.2372 -.2134 -.2182
 .775 -.2058 -.2870 -.2205 -.2617 -.2509
 .900 -.2747 -.2086 -.2594 -.2402

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARCS7-716 1A14 Q1+T18+318M8+AT11 RIGHT VERTICAL (NR9K11)

ALPHA(1,3) = 7.818 BETA(1,3) = 7.740

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1900 .3100 .0000 .0400 .0250

X/CV
 .000 .0003 .4970 .5037 .4120 .4594
 .050 .0194 .5067 .5103 .5062 .5374
 .100 .0649 .3936 .4154 .4324 .5088
 .300 .3203 .3457 .3928 .4052 .3478
 .500 .2785 .2879 .2217 .2155 .1812
 .600 .2083 .1915 .1675 .1763 .1953
 .775 .1354 .1191 .1768 .2183 .2194
 .900 .1904 .1411 .1975 .2267

ALPHA(1,4) = 3.840 BETA(1,4) = -7.880

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1900 .3100 .0000 .0400 .0250

X/CV
 .000 .5994 .4100 .4263 .3809 .3419
 .050 .8392 .8027 .3821 .4419 .4481
 .100 .8307 .8067 .3818 .4022 .4352
 .300 .0370 .8449 .8499 .3785 .3838
 .500 .1016 .1822 .2657 .2790 .2844
 .600 .3594 .3553 .3594 .4175 .4149
 .775 .8023 .3783 .3964 .4509 .4291
 .900 .3102 .3548 .4639 .4833

ALPHA(1,4) = 3.880 BETA(1,4) = -4.130

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1900 .3100 .0000 .0400 .0250

X/CV
 .000 .5994 .4985 .5356 .5180 .4897
 .050 .0322 .0787 .2382 .3034 .3077
 .100 .0508 .0183 .1602 .2575 .2018
 .300 .0318 .0028 .0718 .0118 .0943
 .500 .0270 .0429 .0269 .0224 .0375
 .600 .8298 .3509 .3443 .2855 .2749
 .775 .8047 .3088 .3318 .3344 .2889
 .900 .2648 .2873 .3427 .3077



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A140 - VOL. 2

ARCS7-716 1A14 Q1+712+5128+AT11 RIGHT VERTICAL (085811)

ALPHA(1,4) = 3.900 BETA(1,3) = -.100
 SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1900	.3100	.0000	.0400	.9250
X/CV					
.000	.5839	.5456	.5290	.4936	.4746
.050	.0476	.0431	-.0196	-.0719	-.0700
.100	.0027	.1350	.0859	.0842	.1690
.150	-.0408	.0640	.0795	.1874	.1062
.200	.0149	.0333	.0226	.0115	.0400
.250	-.0924	-.3082	-.3003	-.2698	-.2717
.300	-.1692	-.3225	-.2517	-.3196	-.3003
.350	-.2695	-.2666	-.3212	-.3133	

ALPHA(1,4) = 3.850 BETA(1,4) = 3.770
 SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1900	.3100	.0000	.0400	.9250
X/CV					
.000	.6070	.5163	.4965	.4605	.4909
.050	.3993	.3110	.2666	.2697	.3064
.100	.3094	.2266	.2184	.2600	.3256
.150	.1806	.1493	.2121	.2425	.2221
.200	.1105	.1208	.1106	.0937	.0933
.250	-.2257	-.2747	-.2330	-.2236	-.2363
.300	-.1695	-.2747	-.2410	-.2734	-.2737
.350	-.2637	-.2152	-.2666	-.2656	

ALPHA(1,4) = 3.900 BETA(1,5) = 7.740
 SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/RV	.1900	.3100	.0000	.0400	.9250
X/CV					
.000	.9486	.4403	.4117	.3148	.3954
.050	.9813	.4353	.4163	.4100	.4023
.100	.3791	.3248	.3899	.3663	.4405
.150	.2273	.2384	.3133	.3291	.2926
.200	.1906	.2232	.3773	.1977	.1353
.250	-.2427	-.2232	-.1942	-.2127	-.2180
.300	-.2131	-.2222	-.1939	-.2359	-.2441
.350	-.2343	-.1803	-.2306	-.2306	-.2447

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PA 438

ARC97-756 1A14 CL-71R-512M5-AT11 RIGHT VERTICAL

(B3811)

ALPHA(5) = 0.040 BETA(1) = -7.950

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9850

X/CV

.000	.3177	.3654	.3638	.2821	.2222
.050	-.1774	-.2300	-.3302	-.4845	-.4312
.100	.0308	-.2413	-.3176	-.5166	-.4308
.150	-.0763	-.2197	-.2736	-.4093	-.3505
.200	-.1761	-.1123	-.2633	-.3564	-.2233
.250	-.3173	-.4098	-.3946	-.4845	-.4106
.300	-.2400	-.3140	-.3999	-.5252	-.4376
.350		-.2592	-.3964	-.4747	-.4102

ALPHA(5) = 0.020 BETA(2) = -4.190

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9850

X/CV

.000	.6486	.4878	.4564	.4013	.3690
.050	.0309	-.1273	-.2197	-.3641	-.3153
.100	.1637	-.0097	-.1403	-.3449	-.2471
.150	.0466	.0037	-.0076	-.0409	-.0306
.200	-.0842	-.0343	-.0428	-.0936	-.0069
.250	-.2619	-.3637	-.3545	-.3561	-.2900
.300	-.1907	-.3179	-.3252	-.4116	-.3163
.350		-.2729	-.3266	-.4141	-.3337

ALPHA(5) = 0.030 BETA(3) = -.190

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9850

X/CV

.000	.9393	.4903	.4452	.3807	.3320
.050	.0324	.0467	-.0389	-.1454	-.0733
.100	.1932	.1018	.0366	.0121	.1600
.150	.0963	.0272	.0411	.0319	.0829
.200	-.0142	.0033	-.0110	-.0734	.0102
.250	-.2680	-.3162	-.3188	-.3467	-.2853
.300	-.1803	-.3253	-.3034	-.4023	-.3191
.350		-.2426	-.3369	-.4032	-.3308



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0003011)

ARC97-716 1A14 Q1+712+812+9+AT111 RIGHT VERTICAL

ALPHA(5) = 0.000 BETA(4) = 3.040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.0000	.0400	.0220
K/CV					
.000	.9700	.9055	.4342	.3005	.3990
.050	.3201	.2809	.2156	.1836	.2419
.100	.2449	.2013	.1083	.1026	.2048
.150	.1835	.1307	.1002	.1736	.1693
.200	.0722	.0935	.0756	.0395	.0537
.250	-.3145	-.2926	-.2552	-.2663	-.2567
.300	-.2303	-.2771	-.2455	-.3101	-.2914
.350		-.2900	-.2531	-.3026	-.2987

ALPHA(5) = 0.000 BETA(5) = 7.000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/AV	.1500	.3100	.0000	.0400	.0220
K/CV					
.000	.4039	.4209	.3579	.2326	.2691
.050	.3933	.3906	.3747	.3533	.3920
.100	.2804	.2804	.2810	.3216	.3064
.150	.1487	.2082	.2645	.2844	.2503
.200	.1112	.1678	.1414	.1273	.1018
.250	-.2814	-.2568	-.2103	-.2032	-.2277
.300	-.2628	-.2412	-.2055	-.2514	-.2203
.350		-.2503	-.1740	-.2271	-.2506

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ARC97-716 1A14 CR-T12-S12M2-A711 RIGHT VERTICAL

083812 (18 JAN 74)

REFERENCE DATA

REF = 2.4218 28-FT. ZMP = 29.5000 INCHES
LREF = 36.7090 INCHES VMP = .0000 INCHES
BREF = 36.7090 INCHES ZMP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

MCH = 2.800 ELEVON = .000
RUDDER = .000 SPORK = .000

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3180	.6000	.8400	.9250
X/CV	.7861	.6779	.6206	.6823	.7964
.000	.0759	-.0894	-.1198	-.1994	-.1457
.150	-.0267	-.0782	-.1064	-.1616	-.0756
.300	.0454	-.0380	-.0395	-.1274	-.0366
.450	.1274	.0336	.0073	-.0829	-.0007
.600	-.1451	-.1044	-.1564	-.2353	-.1599
.750	-.1943	-.1263	-.1617	-.2635	-.1714
.900		-.1423	-.1637	-.2707	-.1771

ALPHA(1) = -7.970 BETA(2) = -4.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3180	.6000	.8400	.9250
X/CV	.8570	.8242	.9197	.9242	.8634
.000	.0030	-.0059	-.0515	-.0477	-.0278
.150	.2482	.0769	.0357	.0204	.0670
.300	.2907	.2809	.0869	.0509	.0910
.450	.1840	.1331	.1743	.0643	.1173
.600	-.1163	-.0933	-.0894	-.1035	-.0997
.750	-.1163	-.1182	-.0931	-.1365	-.1076
.900		-.1268	-.0805	-.1199	-.1036

ALPHA(1) = -7.980 BETA(3) = -.050

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3180	.6000	.8400	.9250
X/CV	.8348	.8638	.9316	.9303	.9192
.000	.2040	.2816	.2233	.1350	.1364
.150	.9135	.4300	.3997	.3308	.2824
.300	.3978	.3181	.3366	.3444	.3228
.450	.2803	.2300	.2533	.2707	.2920
.600	-.0257	-.0337	-.0488	-.0043	-.0091

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 439

ARC97-716 1A14 CR-712-S12P5-A711 RIGHT VERTICAL

0083212

ALPHA(1) = -7.900 BETA(3) = -.050

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/8V

.775 -.1109 -.0742 -.0471 -.0458 -.0276
.900 -.0904 -.0354 -.0203 -.0156

ALPHA(1) = -8.000 BETA(4) = 3.800

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/8V

.000 .0204 .0292 .0732 .0717 .0914
.050 .0642 .0839 .0822 .0293 .0316
.150 .0077 .0172 .0970 .0130 .0407
.300 .0399 .0905 .0269 .0090 .0096
.500 .0044 .0994 .0240 .0022 .0700
.600 -.0539 -.0174 -.0154 .0336 .0363
.775 -.0348 -.0313 .0085 .0031 .0147
.900 -.0490 .0218 .0169 -.0159

ALPHA(1) = -8.030 BETA(5) = 7.800

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/8V

.000 .7767 .0097 .7079 .7430 .7909
.050 .0499 .7638 .7102 .7027 .7302
.150 .7071 .0213 .0321 .0474 .0036
.300 .2130 .0251 .0000 .0000 .0723
.500 .3074 .0272 .0402 .0407 .0310
.600 -.0010 .0302 .0309 .0958 .0672
.775 .0000 .0298 .0000 .0340 .0410
.900 .0100 .0029 .0406 .0029

(003012)

ARC07-716 1A14 Q1+712+812M5+AT11 RIGHT VERTICAL

ALPHA(2) = -4.030 BETA(1) = -7.960

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0598	.5748	.6761	.7262	.6737
.050	-.1023	-.1812	-.1659	-.1666	-.1596
.100	-.0802	-.1170	-.1404	-.1405	-.1098
.200	-.0577	-.0705	-.1075	-.1078	-.0673
.300	.0252	-.0243	-.0501	-.0710	-.0266
.400	-.1596	-.1421	-.1690	-.1949	-.1679
.500	-.1618	-.1598	-.1814	-.2230	-.1843
.600		-.1745	-.1247	-.2314	-.1877

ALPHA(2) = -4.030 BETA(2) = -3.960

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7649	.7237	.7632	.7634	.7592
.050	-.0306	-.0516	-.0475	-.0739	-.0402
.100	.1504	.0036	-.0141	-.0166	.0236
.200	.1669	.1923	.0369	.0114	.0411
.300	.1023	.0967	.1260	.0264	.0718
.400	-.1397	-.1248	-.1192	-.1179	-.1230
.500	-.1495	-.1424	-.1163	-.1523	-.1330
.600		-.1505	-.0847	-.1486	-.1323

ALPHA(4) = -4.040 BETA(3) = -.060

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7510	.7766	.6011	.7937	.7600
.050	.1246	.2502	.1793	.0884	.0914
.100	.4203	.3656	.3353	.2199	.2292
.200	.2836	.2509	.2764	.2902	.2684
.300	.1639	.1617	.2010	.2068	.2329
.400	-.1066	-.0876	-.0725	-.0280	-.0381
.500	-.1243	-.1001	-.0727	-.0776	-.0974
.600		-.1162	-.0804	-.0803	-.0936



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A1-08 - VOL. 2

ARC07-716 1A14 Q0+T12+32E02+AT11 RIGHT VERTICAL (RBSH12)

ALPHA(1 2) = -4.080 BETA(1 4) = 3.030

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3160 .6000 .8400 .9250

X/CV	.000	.7522	.7422	.7479	.7501	.7605
.000	.000	.4880	.5377	.4704	.4264	.4024
.050	.150	.5063	.4430	.4115	.4126	.4740
.300	.350	.3567	.3340	.7779	.3765	.3656
.500	.550	.2331	.2579	.2673	.2602	.3038
.700	.750	-.0824	-.0472	-.0315	.70036	-.0011
.775	.799	-.0762	-.0501	-.0141	-.0461	-.0210
.800			-.0641	-.0166	-.0411	-.0459

ALPHA(1 2) = -4.070 BETA(1 2) = 7.030

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3160 .6000 .8400 .9250

X/CV	.000	.5641	.5771	.6372	.6252	.5972
.000	.050	.7212	.5667	.5901	.6076	.6393
.150	.300	.5934	.5413	.5163	.5570	.6126
.300	.400	.4169	.4306	.3184	.5176	.5025
.500	.550	.3045	.3648	.3219	.3791	.3770
.600	.650	-.0317	.0176	-.6499	-.1283	.0412
.700	.750	-.0053	.0021	.0436	-.1345	.0195
.800			-.0065	.0739	-.1427	.0018

ALPHA(1 3) = -.820 BETA(1 1) = -7.940

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3160 .6000 .8400 .9250

X/CV	.000	.5744	.5150	.6133	.6792	.5826
.000	.050	-.1216	-.1445	-.1607	-.1653	-.1607
.150	.300	-.0990	-.1482	-.1537	-.1674	-.1403
.300	.400	-.0978	-.1036	-.1363	-.1399	-.1036
.500	.550	-.0130	-.0808	-.1031	-.1084	-.0721
.600	.650	-.1732	-.1657	-.2013	-.2146	-.1911
.700	.750	-.1707	-.1634	-.2064	-.2403	-.2053
.800			-.1942	-.1486	-.2495	-.2105

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 442

ARC97-716 1A14 OL-T12-SUZNE5-AT11 RIGHT VERTICAL

(033812)

ALPHA(3) = -.200 BETA(2) = -4.030

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.9250
X/8V	.0000	.0332	.0634	.0833	.0749
.020	-.0343	-.0833	-.1179	-.1127	-.1001
.150	.0607	-.0343	-.0610	-.1673	-.0271
.300	.0094	.1134	-.0193	-.0390	-.0127
.450	.0466	.0631	.0662	-.0251	.0116
.600	-.1027	-.1477	-.1380	-.1463	-.1518
.750	-.1728	-.1651	-.1318	-.1762	-.1636
.900		-.1731	-.1014	-.1034	-.1631

ALPHA(3) = -.210 BETA(3) = -.121

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.9250
X/8V	.0000	.0303	.0624	.0803	.0866
.020	-.0731	.1978	.1307	.0466	.0474
.150	.3308	.3059	.2687	.1797	.1901
.300	.2282	.2023	.2157	.2392	.2267
.450	.1096	.1278	.1456	.1516	.1792
.600	-.1390	-.1146	-.0900	-.0566	-.0620
.750	-.1491	-.1238	-.0923	-.1033	-.0823
.900		-.1367	-.0740	-.1036	-.1055

ALPHA(3) = -.210 BETA(4) = 3.000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.0000	.0400	.9250
X/8V	.0000	.0326	.0430	.0209	.0070
.020	.4288	.4770	.4190	.3761	.4018
.150	.4274	.3667	.3584	.3562	.4104
.300	.2931	.2913	.3008	.3314	.3256
.450	.1792	.2139	.2135	.2309	.2477
.600	-.1074	-.0721	-.0608	-.0199	-.0202
.750	-.1071	-.0767	-.0428	-.0342	-.0408
.900		-.0838	-.0195	-.0380	-.0374



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003R12)

ARC07-716 1A14 Q1-T1E-S12M5-AT11 RIGHT VERTICAL

ALPHA(3) = -.220 BETA(5) = 7.800

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5742	.5084	.5581	.5156	.5557
.050	.5945	.5748	.5537	.5361	.5600
.100	.4895	.4686	.4686	.4950	.5511
.300	.3363	.3500	.4114	.4639	.4410
.500	.2401	.3166	.3207	.3355	.3264
.605	-.0572	-.1069	.0041	.0506	.0266
.775	-.0539	-.0186	.0276	.0014	.0047
.900		-.0336	.0415	.0119	-.0054

ALPHA(4) = 3.950 BETA(1) = -8.020

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.3941	.3796	.4781	.5067	.4566
.050	-.1372	-.1816	-.1809	-.2076	-.2036
.100	-.1800	-.1823	-.1814	-.2004	-.1761
.300	-.1577	-.1374	-.1633	-.1777	-.1474
.500	-.1154	-.1325	-.1296	-.1491	-.1170
.605	-.1872	-.1904	-.2210	-.2325	-.2117
.775	-.1840	-.1936	-.2300	-.2569	-.2267
.900		-.1970	-.1913	-.2569	-.2267

ALPHA(4) = 3.950 BETA(2) = -4.040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5436	.5446	.5447	.5357	.5084
.050	-.0616	-.0620	-.1229	-.1496	-.1372
.100	-.0065	-.0594	-.1016	-.1111	-.0750
.300	.0672	.0078	-.0369	-.0633	-.0523
.500	.0032	.0303	.0154	-.0546	-.0504
.605	-.1496	-.1664	-.1954	-.1640	-.1817
.775	-.1782	-.1806	-.1966	-.1637	-.1742
.900		-.1816	-.1170	-.1842	-.1748

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ARCS7-716 1A14 Q1+712+812HS+AT11 RIGHT VERTICAL

(083812)

ALPHA(4) = 3.936 BETA(3) = -.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0148	.5875	.5786	.9363	.9263
.050	.0818	.1826	.1154	.0411	.0343
.100	.2863	.2445	.2203	.1845	.1738
.300	.1712	.1508	.1779	.2046	.1856
.500	.0888	.0947	.1127	.1143	.1403
.605	-.1533	-.1331	-.1134	-.0721	-.0779
.775	-.1551	-.1356	-.1112	-.1159	-.0999
.900		-.1449	-.0819	-.1186	-.1170

ALPHA(4) = 3.940 BETA(4) = 3.860

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.5423	.5327	.5219	.4704	.5009
.050	.3240	.3294	.3725	.3352	.3618
.100	.2801	.3176	.3033	.3137	.3848
.300	.1810	.2121	.2925	.2671	.2782
.500	.1113	.1592	.1736	.1876	.2049
.605	-.1383	-.0929	-.0766	-.0347	-.0351
.775	-.1481	-.0987	-.0812	-.0884	-.0993
.900		-.1100	-.0347	-.0711	-.0703

ALPHA(4) = 3.940 BETA(5) = 7.820

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.4093	.3775	.4316	.3979	.4903
.050	.4823	.5136	.4782	.4729	.5211
.100	.3958	.3924	.3960	.4395	.5104
.300	.2705	.2890	.3614	.4241	.4003
.500	.2090	.2694	.2843	.3016	.2951
.605	-.0822	-.0354	.0014	.0290	.0110
.775	-.0488	-.0281	.0124	-.0155	-.0088
.900		-.0391	.0170	-.0023	-.0159



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
 ARCS7-716 1A14 Q8+7182+512MS+AT11 RIGHT VERTICAL (RDSR12)

ALPHA(3) = 0.082 BETA(1) = -8.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/UV .1500 .3100 .8000 .8400 .9250

K/CV
 .000 .4147 .3737 .3286 .3945 .3311
 .050 -.1055 -.1581 -.1030 -.2119 -.2240
 .150 -.1488 -.1670 -.1674 -.2285 -.2135
 .300 -.1867 -.1852 -.1770 -.2172 -.1875
 .500 -.1504 -.1777 -.1699 -.1832 -.1903
 .650 -.1975 -.1902 -.2174 -.2371 -.2267
 .775 -.1838 -.1935 -.2009 -.2468 -.2314
 .900 -.1972 -.1926 -.2048 -.2017

ALPHA(3) = 0.080 BETA(2) = -4.080

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/UV .1500 .3100 .8000 .8400 .9250

K/CV
 .000 .3631 .3630 .4284 .4480 .4115
 .050 .0180 -.0304 -.0505 -.1541 -.1805
 .150 .0423 -.0361 -.0659 -.1419 -.1197
 .300 .0072 .0046 .0337 .0901 .0640
 .500 -.0221 -.0183 .0237 .0483 .0148
 .650 -.1471 -.1740 .1613 .1470 .1454
 .775 .1677 .1784 .1825 .1891 .1803
 .900 .1850 .1820 .1818 .1849 .1835

ALPHA(3) = 0.080 BETA(3) = -.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/UV .1500 .3100 .8000 .8400 .9250

K/CV
 .000 .6116 .5082 .4888 .4809 .4437
 .050 .1033 .1073 .0643 .0233 .0234
 .150 .2326 .1847 .1872 .1242 .1534
 .300 .1158 .1035 .1384 .1769 .1592
 .500 .0283 .0501 .0630 .0872 .1073
 .650 .1578 .1474 .1228 .0882 .0898
 .775 .1550 .1501 .1210 .1284 .1125
 .900 .1552 .1532 .0933 .1506 .1267

ORIGINAL PAGE 5
 OF POOR QUALITY

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 448

ARC97-716 1A14 01+712+812NE5+AT11 RIGHT VERTICAL

003R121

ALPHA(5) = 8.090 BETA(4) = 3.940

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1900	.3100	.6000	.8400	.9250
X/CV	.000	.4081	.4808	.4098	.3711
.030	.2977	.3633	.3346	.2969	.3449
.120	.2869	.2737	.2627	.2786	.3461
.300	.1850	.1735	.2181	.2605	.2567
.520	.0012	.1840	.1337	.1669	.1691
.663	-.1263	-.1014	-.0631	-.0434	-.0367
.773	-.1200	-.1016	-.0736	-.0787	-.0646
.800		-.1046	-.0537	-.0767	-.0741

ALPHA(5) = 8.110 BETA(5) = 7.940

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1900	.3100	.6000	.8400	.9250
X/CV	.000	.4208	.3690	.2955	.2554
.030	.4798	.5046	.4385	.4152	.4769
.120	.3244	.3631	.3692	.3661	.4716
.300	.1917	.2614	.3247	.3674	.3663
.520	.0829	.2336	.2569	.2513	.2373
.663	-.1337	-.0315	-.0226	.0164	-.0027
.773	-.1254	-.0899	-.0153	-.0074	-.0092
.800		-.0844	.0055	-.0013	-.0075



PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPOILER = .000

REFERENCE DATA

BREF = 8.4210 30-FT. XMP = 29.5000 INCHES
LREF = 30.7090 INCHES YMP = .0000 INCHES
BREF = 30.7090 INCHES ZMP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -0.030

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.7532	.6030	.6759	.6633	.6524
.000	.0708	-.1202	-.2597	-.3876	-.5044
.150	-.1300	-.1300	-.2113	-.3944	-.5337
.300	.1102	-.1137	-.1476	-.2877	-.4322
.450	.0430	-.0935	-.1426	-.1731	-.1176
.600	-.3276	-.2937	-.3132	-.3474	-.3476
.750	-.3042	-.3106	-.3240	-.3673	-.3621
.900	-.3183	-.3099	-.3099	-.35976	-.3472

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.0114	.7029	.7524	.7635	.7457
.000	.0314	-.0508	-.2938	-.4932	-.5059
.150	.1773	.0198	-.2057	-.2191	-.1879
.300	.1728	.0826	.0304	-.1383	-.1018
.450	.0727	.0334	.0372	.0096	.0046
.600	1.3051	-.3054	-.3122	-.2203	-.2277
.750	1.8427	-.3291	-.3213	-.2390	-.2202
.900	-.3196	-.2673	-.2569	-.2104	

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.0002	.7955	.7901	.7612	.7753
.000	.0009	.1721	.0983	.0237	.0024
.150	.3918	.2930	.2508	.2732	.3233
.300	.8030	.8082	.2250	.2374	.2323
.450	1.4499	.1504	.1371	.1456	.1713
.600	-.2591	-.2481	-.2397	-.2010	-.2110

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OF POOR QUALITY

(083813)

RIGHT VERTICAL

ARC97-716 1A14 CR-T18-312MB5

ALPHA(1) = -7.940 BETA(3) = .150

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.773 -.2548 -.2098 -.2340 -.2433 -.2308
.900 -.2706 -.2191 -.2611 -.2377

ALPHA(1) = -7.980 BETA(4) = 4.220

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000 .8448 .7832 .7358 .6955 .7272
.030 .8181 .5208 .4845 .4934 .5349
.150 .4960 .4222 .4313 .4577 .4918
.300 .3544 .3464 .3990 .4100 .3621
.500 .2712 .2734 .2486 .2176 .2188
.693 -.2030 -.1887 -.1844 -.1675 -.1781
.773 -.2493 -.2079 -.1656 -.2122 -.2084
.900 -.2076 -.1628 -.2115 -.2309

ALPHA(1) = -7.980 BETA(5) = 8.150

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000 .7339 .6277 .6499 .5618 .6237
.030 .7498 .6636 .6663 .6482 .6800
.150 .5884 .5351 .5738 .5800 .6025
.300 .4884 .4786 .5070 .5032 .4828
.500 .3858 .3742 .3882 .3976 .2663
.693 -.1379 -.1495 -.1441 -.1456 -.1632
.773 -.2085 -.1612 -.1814 -.1778 -.1797
.900 -.1425 -.1087 -.1584 -.1585

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083813)

RIGHT VERTICAL

ARC87-716 1A14' CL+712+312MB5

ALPHA(1) = -4.020 BETA(1) = -7.970

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

K/CV
.000 .6401 .9204 .9653 .9806 .5082
.070 -.1337 -.1695 -.2080 -.4247 -.4157
.150 -.1772 -.1788 -.2012 -.4324 -.3689
.300 .0575 .1047 .2024 .3586 .2566
.500 .0078 .1479 .2103 .2606 .1966
.605 .3548 .3204 .3713 .3930 .3092
.775 .3210 .3531 .3732 .4264 .4038
.900 .3670 .3486 .4414 .3542

ALPHA(2) = -4.020 BETA(2) = -3.670

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

K/CV
.000 .7170 .6311 .6716 .6459 .6282
.070 -.0194 .1006 .2504 .3288 .3135
.150 .1098 .0237 .2187 .2946 .2098
.300 .1264 .0327 .0086 .1569 .0996
.500 .0220 .0037 .0010 .0358 .0292
.605 .3248 .3157 .2795 .2428 .2324
.775 .2537 .3345 .2928 .2843 .2380
.900 .3150 .2726 .2996 .2490

ALPHA(2) = -4.030 BETA(2) = .300

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

K/CV
.070 .7547 .7009 .7015 .6442 .6808
.070 .2377 .1859 .0867 .0098 .0207
.150 .3343 .2417 .2059 .2125 .2837
.300 .2009 .1584 .1733 .2128 .2046
.500 .0940 .1004 .1136 .0811 .1249
.605 .2890 .2879 .2806 .2314 .2331
.775 .2378 .2591 .2516 .2986 .2355
.900 .2941 .2622 .3084 .2698

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2.

083813)

RIGHT VERTICAL

ARC07-71.6 1A14 Q1+T12+512MS

ALPHA0(2) = -4.030 BETA0(4) = 4.120

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .7030 .6548 .6170 .5936 .6374
.030 .5382 .4487 .4 .4337 .4853
.150 .4233 .3577 .3758 .4015 .4429
.300 .2866 .2835 .3356 .3609 .3343
.500 .2129 .2144 .2051 .1802 .1806
.665 .2491 .2217 .1992 .1823 .1940
.775 .2724 .2296 .1856 .2331 .2261
.900 .2342 .1823 .2283 .2443

ALPHA0(2) = -4.080 BETA0(5) = 7.990

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .6229 .5901 .5704 .4769 .5176
.030 .6782 .5844 .6038 .5734 .6213
.150 .5201 .4742 .5112 .5092 .5428
.300 .3816 .4142 .4480 .4442 .4027
.500 .3236 .3116 .2377 .2454 .2212
.665 .1727 .1724 .1695 .1872 .1814
.775 .2408 .1833 .1532 .2205 .1990
.900 .1695 .1922 .1976 .2116

ALPHA0(3) = -.180 BETA0(1) = -6.000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV
.000 .9679 .4390 .5082 .4710 .4543
.030 .1996 .1996 .3003 .4374 .4211
.150 .2098 .2099 .2977 .4501 .4056
.300 .0806 .1938 .2209 .3637 .3223
.500 .3336 .1737 .2338 .2894 .2205
.665 .3424 .3337 .3946 .4044 .3940
.775 .2804 .3881 .3620 .4446 .4072
.900 .3336 .3377 .4596 .4013



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 401

0833131

RIGHT VERTICAL

ARCST-718 1A14 QUANTITIES

ALPHA(3) = -.176 BETA(3) = -3.950

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
W/CV	.000	.0470	.3412	.6063	.5689
.050	-.0060	-.1263	-.2302	-.3056	-.2947
.100	.0009	-.0763	-.1704	-.2530	-.1993
.200	.0065	.0232	.0109	-.0676	-.1059
.300	.0242	.0196	.0266	.0116	.0770
.400	-.3023	-.2997	-.2901	-.2670	-.2440
.775	-.2227	-.3119	-.2836	-.3095	-.2590
.900		-.2941	-.2706	-.3205	-.2726

ALPHA(3) = -.180 BETA(3) = -.180

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
W/CV	.000	.0472	.0265	.0215	.5725
.050	.1457	.0994	-.0017	-.0610	-.0649
.100	.2691	.1609	.1599	.1419	.2113
.200	.1427	.1082	.1267	.1632	.1519
.300	.0465	.0527	.0630	.0503	.0695
.400	-.2019	-.2694	-.2776	-.2321	-.2544
.775	-.2134	-.3053	-.2665	-.2991	-.2781
.900		-.2901	-.2616	-.3041	-.2664

ALPHA(3) = -.200 BETA(4) = 4.120

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3180	.6000	.8400	.9250
W/CV	.000	.0281	.5782	.5709	.5303
.050	.4590	.3817	.3005	.3644	.4184
.100	.5552	.2991	.3169	.3492	.3903
.200	.2306	.2269	.2245	.3157	.2911
.300	.1028	.1997	.1894	.1496	.1509
.400	-.2727	-.2451	-.2143	-.1679	-.2046
.775	-.2709	-.2448	-.2008	-.2415	-.2386
.900		-.2501	-.1910	-.2347	-.2550

0038213)

RIGHT VERTICAL

ARC87-716 1A14 CR-712-512M23

ALPHA(3) = -.210 BETA(5) = 0.090

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV .1500 .3100 .6000 .8400 .9250

X/CV				
.000	.0197	.4006	.4844	.3682
.050	.0206	.5133	.5011	.5544
.100	.4703	.4080	.4484	.4866
.150	.3237	.3497	.4010	.3942
.200	.2926	.2925	.2242	.2009
.250	.1891	.1913	.1834	.1923
.300	.2306	.1873	.1731	.2279
.350		.1933	.1623	.2042
.400				.2234

ALPHA(4) = 3.830 BETA(1) = -0.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV .1500 .3100 .6000 .8400 .9250

X/CV				
.000	.9483	.3933	.4042	.3021
.050	.2613	.2719	.3310	.4173
.100	.2846	.2746	.3364	.4356
.150	.0299	.2641	.2676	.3317
.200	.1043	.2221	.2201	.2769
.250	.3483	.3647	.4119	.4142
.300	.2462	.3920	.4116	.4229
.350		.3374	.3314	.4480
.400				.4306

ALPHA(4) = 3.910 BETA(2) = -4.080

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV .1500 .3100 .6000 .8400 .9250

X/CV				
.000	.5902	.4833	.5367	.4971
.050	.0042	.0896	.2236	.3182
.100	.0193	.0176	.1415	.2703
.150	.0711	.0091	.0104	.0117
.200	.0244	.0404	.0112	.0339
.250	.2370	.3393	.3313	.3005
.300	.2277	.3124	.3200	.3504
.350		.2849	.3138	.3568
.400				.3031



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

003813

RIGHT VERTICAL

ARC97-716 1A14 QUATRO-SIXES

ALPHA(4) = 3.918 BETA(3) = -.150

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .0000 .0400 .0250

K/CV

.000 .5610 .5441 .5827 .4749 .4836
.030 .0353 .0403 -.0113 -.0453 -.0684
.130 .2048 .1330 .1186 .0797 .1620
.300 .0944 .0834 .0643 .1127 .1074
.520 .0133 .0170 .0210 .0024 .0422
.665 -.3170 -.3048 -.3005 -.2784 -.2724
.779 -.2402 -.3204 -.2912 -.3304 -.3014
.900 -.3076 -.2637 -.3320 -.3134

ALPHA(4) = 3.820 BETA(4) = 4.080

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .0000 .0400 .0250

K/CV

.000 .5614 .5116 .5128 .4910 .4784
.030 .4208 .3309 .2818 .2742 .3309
.130 .3193 .2990 .2457 .2562 .3129
.300 .1849 .1641 .2274 .2402 .2305
.520 .1232 .1283 .1177 .0890 .1000
.665 -.2931 -.2717 -.2475 -.2388 -.2340
.779 -.2533 -.2618 -.2359 -.2819 -.2695
.900 -.2694 -.2283 -.2749 -.2608

ALPHA(4) = 3.830 BETA(5) = 8.030

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .0000 .0400 .0250

K/CV

.000 .5476 .4284 .4036 .2987 .3384
.030 .3372 .4408 .4398 .4217 .4609
.130 .3678 .3303 .3637 .3773 .4234
.300 .2400 .2724 .3274 .3330 .2996
.520 .2118 .2231 .1838 .1836 .1392
.665 -.2371 -.2112 -.1933 -.2078 -.2144
.779 -.2513 -.2171 -.1880 -.2477 -.2347
.900 -.2267 -.1751 -.2181 -.2357

01838137

RIGHT VERTICAL

ARC97-718 1A14 Q1+718+812821

ALPHA(5) = 0.040 BETA(1) = -0.170

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000 .0017 .3491 .3549 .3068 .2454
 .050 -.1774 -.2300 -.3276 -.4165 -.4225
 .150 .0025 -.2440 -.3234 -.4480 -.4328
 .300 -.0815 -.2305 -.2831 -.3569 -.3518
 .500 -.1712 -.1410 -.2762 -.3119 -.2357
 .600 -.3204 -.4078 -.4035 -.4245 -.4402
 .775 -.2777 -.3317 -.4066 -.4636 -.4397
 .900 -.2914 -.3583 -.4109 -.4162

ALPHA(5) = 0.020 BETA(2) = -4.120

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000 .0254 .4258 .4554 .4165 .3615
 .050 -.0164 -.1222 -.2140 -.3126 -.3059
 .150 .1704 .0050 -.1261 -.2803 -.2829
 .300 .0702 .0016 .0023 -.0113 -.0142
 .500 -.0566 -.0491 -.0392 -.0563 -.0032
 .600 -.2599 -.3530 -.3371 -.3080 -.2902
 .775 -.2400 -.3318 -.3232 -.3579 -.3142
 .900 -.2618 -.3053 -.3642 -.3305

ALPHA(5) = 0.020 BETA(3) = -.230

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.000 .5364 .4889 .4495 .3686 .3743
 .050 .0147 .0327 -.0365 -.1069 -.0666
 .150 .1992 .1049 .0757 .0325 .1269
 .300 .0643 .0293 .0409 .0765 .0640
 .500 -.0148 -.0119 -.0136 -.0315 .0102
 .600 -.3075 -.3186 -.3136 -.2938 -.2844
 .775 -.2201 -.2292 -.3057 -.3469 -.3170
 .900 -.2917 -.2896 -.3479 -.3286



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2

00030131

RIGHT VERTICAL

ARC97-716 1A14 Q1+T12+SIENES

ALPHA(1) = 0.020 BETA(1) = 4.070

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.000 .9945 .9103 .4342 .3593 .3055
 .020 .3276 .2936 .2209 .1142 .2645
 .150 .2474 .2032 .1900 .1929 .2506
 .300 .1240 .1297 .1713 .1748 .1754
 .500 .0754 .0873 .0772 .0366 .0594
 .605 -.3136 -.2892 -.2613 -.2603 -.2532
 .775 -.3034 -.2796 -.2490 -.3082 -.2071
 .900 -.2969 -.2442 -.2568 -.2951

ALPHA(1) = 0.020 BETA(1) = 0.180

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.000 .4792 .3691 .3424 .2078 .2442
 .020 .4364 .4098 .3911 .3610 .4213
 .150 .3198 .2879 .3153 .3256 .3798
 .300 .1356 .2053 .2732 .2459 .2637
 .500 .1237 .1762 .1401 .1237 .1117
 .605 -.2803 -.2198 -.2059 -.2190 -.2210
 .775 -.2709 -.2350 -.1909 -.2614 -.2362
 .900 -.2332 -.1913 -.2324 -.2362

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

WREF = 2.4210 94. FT. WREF = 29.5000 INCHES
LREF = 36.7000 INCHES YREF = .0000 INCHES
BREF = 36.7000 INCHES ZREF = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.870 BETA(1) = -7.830

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.7991	.6616	.6224	.6031	.7996
.000	.0730	-.0872	-.1123	-.1467	-.1366
.050	.0169	-.0745	-.1030	-.1109	-.0694
.100	.0323	-.0582	-.0360	-.0736	-.0319
.150	.1307	.0386	.0130	-.0366	.0170
.200	-.1416	-.0994	-.1534	-.1620	-.1504
.250	-.1543	-.1106	-.1591	-.2005	-.1663
.300		-.1308	-.1226	-.2144	-.1705

ALPHA(1) = -7.960 BETA(2) = -3.870

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.8377	.6363	.6218	.6316	.8948
.000	.0096	.0028	-.0490	-.0382	-.0235
.050	.2563	.1015	.0363	.0316	.0700
.100	.2709	.2805	.0951	.0759	.0932
.150	.1660	.1564	.1764	.0751	.1185
.200	-.1164	-.1001	-.0925	-.0947	-.1036
.250	-.1130	-.1206	-.0935	-.1233	-.1137
.300		-.1294	-.0817	-.1113	-.1120

ALPHA(1) = -7.960 BETA(3) = .120

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1500	.3100	.6000	.8400	.9250
X/CV	.8045	.6936	.6549	.6331	.9156
.000	.2035	.3400	.2566	.1372	.1425
.050	.5109	.4391	.3909	.3531	.3470
.100	.3807	.3143	.3427	.4089	.3592
.150	.2274	.2359	.2567	.2700	.2967
.200	-.0960	-.0570	.1131	-.0017	-.0111



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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-718 1A14 OL+T12+SI2NBS

RIGHT VERTICAL

ALPHA(1) = -7.980 BETA(3) = .170

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV

.775 -.1080 -.0884 -.0496 -.0506 -.0306
.900 -.0859 -.0470 -.0385 -.0588

ALPHA(1) = -7.980 BETA(4) = 4.040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV

.000 .7808 .6877 .6873 .6831 .6866
.050 .6815 .6257 .5741 .5324 .5705
.150 .6072 .5209 .4998 .5082 .5649
.300 .4401 .4043 .4363 .4843 .4690
.500 .3050 .3190 .3370 .3567 .3745
.685 -.0516 .0006 .0013 .0370 .0319
.775 -.0925 -.0133 .0212 -.0085 .0117
.900 -.0315 .0099 .0032 -.0165

ALPHA(1) = -8.030 BETA(3) = 8.100

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3180 .6000 .8400 .9250

X/CV

.000 .7324 .6835 .7854 .7448 .7683
.050 .6582 .7662 .7276 .7156 .7489
.150 .7078 .6274 .6240 .6801 .7069
.300 .5142 .5036 .5728 .6329 .5832
.500 .5917 .4439 .4929 .4530 .4431
.685 .0050 .0682 .0686 .1039 .0783
.775 .0033 .0424 .0795 .0486 .0512
.900 .0290 .0290 .1015 .0644 .0344

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARC97-716 1A14 CR+TIS+SSNES RIGHT VERTICAL (003R14)

ALPHA(8) = -4.030 BETA(1) = -7.760

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0447	.5814	.6030	.7371	.6784
.050	-.0916	-.1153	-.1512	-.1590	-.1564
.100	-.0391	-.1081	-.1314	-.1304	-.0992
.150	-.0168	-.0570	-.0953	-.0985	-.0844
.200	.0394	-.0004	-.0240	-.0616	-.0256
.250	-.1537	-.1305	-.1731	-.1874	-.1670
.300	-.1728	-.1474	-.1632	-.2124	-.1842
.350	-.1604	-.1808	-.2223	-.1876	

ALPHA(8) = -4.030 BETA(2) = -3.840

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.7348	.7264	.7707	.7040	.7576
.050	-.0396	-.0379	-.0778	-.0808	-.0553
.100	.1814	.0386	-.0021	-.0203	.0287
.150	.0037	.1805	.0490	.0173	.0437
.200	.1008	.1010	.1314	.0285	.0745
.250	-.1375	-.1219	-.1153	-.1237	-.1250
.300	-.1974	-.1398	-.1131	-.1954	-.1325
.350	-.1408	-.1054	-.1478	-.1329	

ALPHA(8) = -4.040 BETA(3) = .040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0482	.7799	.8048	.8016	.7826
.050	.1384	.8753	.1911	.1021	.0992
.100	.4283	.5712	.3300	.8709	.8326
.150	.2980	.8334	.2812	.3411	.2882
.200	.1078	.1670	.8008	.8141	.8366
.250	-.1139	-.0888	-.0722	-.0263	-.0374
.300	-.1335	-.0980	-.0700	-.0742	-.0577
.350	-.1130	-.0561	-.0768	-.0837	



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

RIGHT VERTICAL (003014)

ARC97-716 1A14 Q1-712-512NBS

ALPHA(2) = -4.040 BETA(4) = 3.900

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.0000 .7009 .7321 .7353 .7302 .7526
 .0500 .5311 .5423 .4834 .4477 .4806
 .1500 .5108 .4468 .4134 .4296 .4854
 .3000 .3633 .3330 .3366 .4069 .3920
 .5000 .2398 .2515 .2735 .2929 .3070
 .6000 .0815 .0432 .0281 .0099 .0002
 .7750 .0000 .0409 .0088 .0291 .0180
 .9000 .0592 .0000 .0226 .0410

ALPHA(2) = -4.080 BETA(5) = 7.800

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.0000 .6139 .9733 .8351 .6149 .0645
 .0500 .7304 .6796 .6356 .6173 .6614
 .1500 .5985 .5322 .5410 .5672 .6286
 .3000 .4216 .4322 .4735 .5423 .5176
 .5000 .3136 .3596 .3769 .3857 .3861
 .6000 .0223 .0243 .0426 .0757 .0517
 .7750 .0236 .0086 .0540 .0210 .0251
 .9000 .0006 .0764 .0400 .0117

ALPHA(3) = -.180 BETA(1) = -7.810

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .0000 .0400 .0250

X/CV

.0000 .5845 .5000 .6089 .6103 .5537
 .0500 .1119 .1341 .1772 .1696 .1775
 .1500 .0837 .1404 .1451 .1697 .1321
 .3000 .0840 .0900 .1241 .1364 .1001
 .5000 .0033 .0802 .0916 .1071 .0638
 .6000 .1665 .1368 .1936 .2160 .1864
 .7750 .1789 .1703 .1991 .2368 .2020
 .9000 .1871 .1495 .2488 .2036

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

W03R141

RIGHT VERTICAL

ARC87-716 1A14 Q1-T18+312N2

ALPHA(1) 31 = -.180 BETA(1) 2 = -3.800

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0449	.0364	.0401	.0701	.0333
.050	-.0208	-.0721	-.1024	-.1081	-.0899
.100	.0871	-.0232	-.0449	-.0500	-.0159
.150	.1219	.1272	.0008	-.0236	-.0007
.200	.0571	.0583	.0772	-.0083	.0285
.250	-.1308	-.1401	-.1333	-.1308	-.1411
.300	-.1787	-.1636	-.1287	-.1680	-.1323
.350		-.1727	-.1066	-.1633	-.1520

ALPHA(1) 3 = -.180 BETA(1) 3 = .040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0100	.0450	.0601	.0716	.0534
.050	.0871	.2327	.1501	.0733	.0653
.100	.3349	.3183	.2768	.2088	.1969
.150	.2354	.2099	.2248	.2760	.2350
.200	.1835	.1862	.1532	.1565	.1845
.250	-.1293	-.1048	-.0922	-.0593	-.0575
.300	-.1402	-.1171	-.0872	-.1030	-.0796
.350		-.1307	-.0795	-.1055	-.1024

ALPHA(1) 3 = -.200 BETA(1) 4 = 4.050

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV					
.000	.0131	.0409	.0137	.0601	.0232
.050	.4492	.4018	.4271	.3056	.4266
.100	.4893	.3939	.3681	.3634	.4217
.150	.2984	.2702	.3057	.3420	.3346
.200	.1847	.2013	.2182	.2333	.2572
.250	-.0979	-.0704	-.0593	-.0196	-.0173
.300	-.1091	-.0795	-.0358	-.0593	-.0377
.350		-.0822	-.0266	-.0333	-.0530



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

08030141

RIGHT VERTICAL

ARC97-716 1A14 Q1+712+512125

ALPHA(1 3) = -.180 BETA(1 3) = 9.040

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.0000 .5470 .4704 .5510 .4990 .5412
 .0200 .6082 .5906 .5700 .5525 .5682
 .1500 .4975 .4806 .4651 .5043 .5803
 .3000 .3411 .3554 .4243 .4836 .4537
 .5000 .2534 .3042 .3286 .3567 .3322
 .6850 .0480 .0029 .0140 .0322 .0337
 .7750 .0457 .0146 .0432 .0030 .0108
 .9000 .0305 .0445 .0184 .0014

ALPHA(1 4) = 3.920 BETA(1 4) = -7.910

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.0000 .3018 .4006 .4804 .5113 .4292
 .0200 .1299 .1551 .1762 .1904 .1966
 .1500 .1074 .1500 .1748 .1893 .1638
 .3000 .1106 .1291 .1559 .1630 .1354
 .5000 .0624 .1002 .1192 .1385 .1043
 .6850 .1747 .1851 .2190 .2248 .2041
 .7750 .1810 .1922 .2225 .2470 .2196
 .9000 .1876 .1950 .2537 .2210

ALPHA(1 4) = 3.920 BETA(1 2) = -3.860

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V .1500 .3100 .6000 .8400 .9250

X/CV

.0000 .5416 .5682 .5525 .5407 .5102
 .0200 .0430 .0696 .1084 .1477 .1297
 .1500 .0013 .0415 .0936 .1055 .0861
 .3000 .0959 .0329 .0074 .0662 .0432
 .5000 .0208 .0237 .0213 .0413 .0104
 .6850 .1378 .1641 .1528 .1416 .1266
 .7750 .1790 .1783 .1531 .1688 .1666
 .9000 .1693 .1844 .1785 .1798

RIGHT VERTICAL

083814)

ARC97-716 1A14 CR-712-SIEMES

ALPHA(4) = 3.842 BETA(3) = .030

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV					
.000	.9998	.9762	.9698	.9400	.9290
.030	.1147	.1844	.1430	.0708	.0267
.150	.2688	.2598	.2404	.2140	.2186
.300	.1842	.1848	.1892	.2332	.1937
.450	.0798	.0907	.1175	.1235	.1449
.603	-.1419	-.1293	-.1105	-.0663	-.0727
.775	-.1508	-.1303	-.1078	-.1118	-.0902
.900		-.1392	-.0851	-.1130	-.1132

ALPHA(4) = 3.840 BETA(4) = 3.800

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV					
.000	.9290	.9594	.9235	.4881	.5012
.030	.3329	.4073	.3817	.3505	.3456
.150	.2844	.3233	.3170	.3218	.3735
.300	.1973	.2118	.2379	.3040	.2911
.450	.1213	.1457	.1810	.1972	.2203
.603	-.1893	-.0883	-.0599	-.0300	-.0288
.775	-.1499	-.0931	-.0545	-.0640	-.0517
.900		-.1042	-.0367	-.0830	-.0619

ALPHA(4) = 3.800 BETA(3) = 8.000

SECTION (3) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3160	.6000	.8400	.9250
X/CV					
.000	.4008	.3993	.4329	.4014	.4493
.030	.4834	.5220	.4884	.4982	.5378
.150	.4036	.3997	.4130	.4813	.5128
.300	.2987	.2991	.3701	.4481	.4146
.450	.2173	.2593	.2907	.3036	.2999
.603	-.0304	-.0309	.0087	.0303	.0153
.775	-.0368	-.0242	.0121	-.0126	-.0071
.900		-.0392	.0182	.0028	-.0124



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RIGHT VERTICAL

TABULATED PRESSURE DATA - 1A148 - VOL. 2

DATE 27 JAN 75

ARC57-716 1A14 OL+112+512M3

ALPHA(1) = 0.000 BETA(1) = -0.020

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV	.4153	.3684	.3413	.3702	.3387
.000	.0920	-.1303	-.1797	-.2049	-.2136
.050	-.1375	-.1617	-.1768	-.2225	-.2053
.100	-.1532	-.1564	-.1641	-.2107	-.1782
.150	-.1386	-.1503	-.1607	-.1765	-.1520
.200	-.1025	-.1067	-.1071	-.1242	-.1213
.250	-.1076	-.1016	-.1051	-.1404	-.2312
.300	-.1080	-.1030	-.1075	-.1222	-.2170

ALPHA(1) = 0.000 BETA(2) = -4.000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV	.3776	.4132	.4361	.4591	.4156
.000	.0329	-.0211	-.0632	-.1476	-.1528
.050	.0532	-.0213	-.0736	-.1366	-.1021
.100	.0191	.0166	-.0179	-.0819	-.0984
.150	-.0112	-.0222	-.0066	-.0318	-.0003
.200	-.1380	-.1706	-.1590	-.1401	-.1349
.250	-.1714	-.1779	-.1576	-.1613	-.1494
.300	-.1021	-.1021	-.1021	-.1007	-.1004

ALPHA(1) = 0.000 BETA(3) = .000

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/8V	.1500	.3100	.6000	.8400	.9250
X/CV	.6022	.5073	.4574	.4998	.4426
.000	.1237	.1186	.0950	.0369	.0450
.050	.2203	.1987	.1708	.1445	.1842
.100	.1140	.1116	.1428	.1975	.1641
.150	.0412	.0506	.0922	.0948	.1805
.200	-.1414	-.1373	-.1198	-.0945	-.0760
.250	-.1320	-.1395	-.1103	-.1270	-.1020
.300	-.1433	-.0997	-.1877	-.1164	

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A548 - VOL. 2

0030141

RIGHT VERTICAL

ARC97-718 1A14 Q1+712+512H5

ALPHA(5) = 8.052 BETAO (4) = 4.010

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/EV	.1500	.3100	.5000	.8400	.9820
X/CV					
.000	.4312	.4374	.4076	.3795	.4104
.050	.3870	.3886	.3375	.3266	.3677
.100	.2932	.2743	.2706	.2946	.3506
.150	.1803	.1722	.2204	.2806	.2710
.200	.0845	.1136	.1593	.1797	.1997
.250	-.1109	-.0904	-.0806	-.0566	-.0345
.300	-.1315	-.0965	-.0676	-.0720	-.0622
.350		-.0902	-.0513	-.0723	-.0721

ALPHA(5) = 8.110 BETAO (5) = 8.080

SECTION (1) RIGHT VERTICAL DEPENDENT VARIABLE CP

Z/EV	.1500	.3100	.5000	.8400	.9820
X/CV					
.000	.4163	.3803	.3046	.2926	.3232
.050	.3056	.3086	.4446	.4401	.4915
.100	.3156	.3723	.3676	.3909	.4756
.150	.1961	.2618	.3356	.3653	.3603
.200	.1046	.2297	.2705	.2630	.2666
.250	-.1182	-.0403	-.0198	.0166	-.0009
.300	-.1313	-.0376	-.0091	-.0080	-.0094
.350		-.0793	.0057	.0029	-.0043



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 483

ARC97-716 1A14 CR+T12+SIENES+AT11 3RM BOOSTER

0033312 (18 JAN 74)

REFERENCE DATA

SREF = 2.4210 54.77. 104P = 20.5000 INCHES
 LREF = 30.7000 INCHES 144P = .0000 INCHES
 SREF = 30.7050 INCHES 244P = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
 RUDDER = .000 SPOON = .000

ALPHA(1) = -0.280 BETAT(1) = -0.040

DEPENDENT VARIABLE CP

SECTION (1) 3RM BOOSTER

X/L3	Y000	.0340	.0900	.1150	.1440	.2010	.2670	.3750	.4600	.6050	.7100	.8330	.8900	.9170	.9380
PM1	.000	.0530	-.4803	-.3034	-.2360	-.1956	-.2400	-.3751	-.2764	-.3515	-.1506	-.1767	-.2340	-.0503	-.0168
45.000			-.4476	-.3976	-.2446	-.2023	-.1634						-.1839	-.0178	-.0304
90.000			-.3669	-.3331	-.1827	-.1284	-.0832	-.0183	-.1076	-.1993	-.2455	-.1839	-.2249	-.0282	-.0932
135.000				-.3050	-.4111	-.1156	-.0328	.0223					-.2238	-.0782	-.0424
180.000			.0530	-.2828	-.2962	-.1071	.0026	.3887	.1715	.0533	.0351	.0089	-.1641	-.3009	-.1379
225.000				-.3050	-.2631	-.0187	-.1807	.3502					-.2206	-.0903	-.0329
270.000				-.3769	-.1873		-.4393	-.3659	-.1049		.1306	-.2710	-.2154	-.1804	-.1634
315.000				-.4640	.0972	-.3536	-.4315	-.4232	-.3353				-.2239	-.1726	-.1713

X/L3 .9500

PM1

.000
 45.000
 90.000
 135.000
 180.000
 225.000
 270.000
 315.000

ALPHA(1) = -0.280 BETAT(2) = -4.330

DEPENDENT VARIABLE CP

SECTION (1) 3RM BOOSTER

X/L3	Y000	.0340	.0900	.1150	.1440	.2010	.2670	.3750	.4600	.6050	.7100	.8330	.8900	.9170	.9380
PM1	.000	.3534	-.2760	-.2943	-.2832	-.2183	-.2504	-.3548	-.2369	-.3551	-.3074	.0199	-.1363	.0131	-.0808
45.000			-.2130	-.2853	-.2727	.2251	-.1605						-.1911	-.0328	-.0316
90.000			-.2370	-.2496	-.2219	-.1769	-.1374	-.0870	-.1769	-.2794	-.3110	-.1909	-.2391	-.0319	.0774
135.000				-.1894	-.0599	-.1448	-.0820	-.0370					-.2597	-.0804	.1845
180.000			.3534	-.1532	.0333	-.1116	-.0107	-.0656	.0969	-.0223	-.0432	-.0600	-.2169	-.0506	.2353
225.000				-.1989	-.0140	-.0196	-.1173	-.0290					-.1803	-.1225	-.0358
270.000				-.3034	.2412		-.4227	-.3409	.0067		.2729	-.2369	-.1893	-.1801	-.1419
315.000				-.3750	.0479	-.3560	-.4207	-.4131	-.3712				-.1934	-.1198	-.1193

X/L3 .9500

00000000

ARC97-716 1A14 OL-718+812MS+AT11 8MM BOOSTER

ALPHAT (1) = -0.000 BETAT (2) = -4.330

DEPENDENT VARIABLE CP

SECTION (1) 8MM BOOSTER

X/L8 -0.500

PH1
 .000 -0.1096
 45.000 -0.0402
 90.000 -0.1709
 135.000 -0.3674
 180.000 -0.4237
 225.000 -0.0423
 270.000 -0.1005
 315.000 -0.0956

ALPHAT (1) = -0.000 BETAT (3) = -0.170

DEPENDENT VARIABLE CP

SECTION (1) 8MM BOOSTER

X/L8 .0000

PH1
 .000 -0.717
 45.000 -0.1845
 90.000 -0.0778
 135.000 -0.0846
 180.000 -0.0219
 225.000 -0.0551
 270.000 -0.0008
 315.000 -0.1513

PH1
 .000 -0.717
 45.000 -0.1845
 90.000 -0.0778
 135.000 -0.0846
 180.000 -0.0219
 225.000 -0.0551
 270.000 -0.0008
 315.000 -0.1513

X/L8 -0.500

PH1
 .000 -0.1002
 45.000 -0.0360
 90.000 -0.0606
 135.000 -0.2348
 180.000 -0.1370
 225.000 -0.1018
 270.000 -0.1474
 315.000 -0.0739

PH1
 .000 -0.717
 45.000 -0.1845
 90.000 -0.0778
 135.000 -0.0846
 180.000 -0.0219
 225.000 -0.0551
 270.000 -0.0008
 315.000 -0.1513



ARC97-716 1A14 Q1-T12-S12M25-A111 SRM BOOSTER

0833811)

ALPHAT(1) = -0.590 BETAT(4) = 3.080

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0990	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
PW1	.7743	-.8228	-.1614	-.2883	-.2618	-.2741	-.1122	-.0401	-.0378	-.0401	.2425	-.1074	-.1829	.0281	.1798
45.000	-.000	-.2164	-.1790	-.3093	-.2411	-.1861							-.1877	.0478	-.0133
90.000		-.1218	-.1439	-.2961	-.2679	-.2132	-.1955	-.2946	-.2354	-.1949	.0479	-.1099	-.1890	.0437	-.0836
135.000		-.0670	.0186	-.2204	-.1892	-.0963							-.1894	.0302	.1610
180.000	.7743	.0553	.2226	-.1373	-.0222	.1049	.0178	-.0086	.1568	-.1000	-.0636	-.2180	-.2018	-.0258	.0544
225.000		.0380	.2533	-.0116	-.0636	.1927	.1226						-.1823	-.1351	-.1168
270.000		-.1053	.0344	-.0131	-.4131	-.1453	-.2151	-.0080			.2932	-.2283	-.1791	-.1633	-.1398
315.000		-.2132	.0369	-.3375	-.4125	-.4036	-.1993						-.1990	-.0032	-.0086

X/L3 .9500

PW1	.0906
45.000	.0356
90.000	.0875
135.000	.1798
180.000	.0415
225.000	-.1046
270.000	-.1337
315.000	.0434

ALPHAT(1) = -0.310 BETAT(5) = 7.080

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0990	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
PW1	.8847	-.2004	-.0903	-.2692	-.2563	-.2496	.0170	.0070	.0006	-.0164	.0944	-.1591	-.1883	.0088	.1293
45.000		-.1359	-.0677	-.3192	-.2408	-.1431							-.1891	.0713	.1108
90.000		-.1436	-.0687	-.3221	-.2931	-.2167	-.0801	-.1639	-.1929	-.1061	.0444	-.1844	-.2001	.1034	.0361
135.000		-.0294	.0467	-.2537	-.2537	-.1418							-.1401	.0248	.0532
180.000	.8847	.1348	.2631	-.1570	.0282	.1295	-.0335	.0267	-.1395	-.0081	.0142	-.2239	-.1716	-.0992	-.0326
225.000		.2031	.3296	-.0093	-.0070	.4104	.0414						-.1823	-.1581	-.1280
270.000		.0100	.6980	-.3944	-.0787	-.2340	.0392				.2392	-.2428	-.1928	-.1736	-.1487
315.000		-.1653	.0498	-.3476	-.3634	-.3532	-.1379						-.2024	-.0080	.1846

X/L3 .9500

PW1	.2709
45.000	-.0887
90.000	.0318
135.000	.0341
180.000	-.0848

ARC97-716 1A14 CL-712-S12M5-AT11 SRM BOOSTER (083611)

ALPHAT(1) = -0.310 BETAT(1) = 7.890

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9360

PMI

825.000 -.1234

870.000 -.1403

915.000 .0451

ALPHAT(2) = -4.840 BETAT(2) = -7.900

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000

PMI

825.000 .0038

870.000 .0943

915.000 .1804

960.000 .2122

1000.000 .1343

1045.000 .0764

1090.000 .0744

1135.000 .0474

X/L3 .9360

PMI

825.000 -.0680

870.000 .0869

915.000 .1797

960.000 .0296

1000.000 .3786

1045.000 .1544

1090.000 -.1439

1135.000 -.1420

ALPHAT(3) = -4.820 BETAT(3) = -4.130

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000

PMI

825.000 1.1900

870.000 .0530

915.000 .0927

960.000 .2004

1000.000 1.1900

1045.000 .1393

1090.000 .0886

1135.000 .0886

X/L3	.0000	.0340	.0900	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.8900	.9170	.9360
PMI	.0000	.0038	.0808	-.2143	-.1516	-.1827	-.2811	-.1228	-.0763	-.0731	.1358	-.0793	-.1943	-.0320	-.0481
825.000	.0943	.0831	-.2057	-.1435	-.0914	-.0364	-.0054	-.0054	-.0995	-.1463	-.0426	-.0713	-.1669	.0115	-.0794
870.000	.1804	.2090	-.1653	-.0936	-.0422	-.0364	-.0054	-.0054	-.0995	-.1463	-.0426	-.0713	-.1669	.0115	-.0794
915.000	.2122	.2202	-.1322	-.0629	-.0010	-.0010	-.0010	-.0010	-.0629	-.1322	-.0629	-.0010	-.0010	-.0010	-.0010
960.000	.1343	.2183	-.1367	-.0548	-.1160	.3151	.1336	.0484	.0252	.2579	-.1170	-.1308	-.1308	-.0916	-.0916
1000.000	.0764	.2963	-.0710	-.2309	-.2331	.3229	.3229	.3229	.3229	.3229	.3229	.3229	.3229	.3229	.3229
1045.000	.0744	.7733	-.3808	-.3598	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503	-.1503
1090.000	-.0474	.2610	-.2235	-.3177	-.3582	-.2031	-.2031	-.2031	-.2031	-.2031	-.2031	-.2031	-.2031	-.2031	-.2031



DAYZ 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

(1 9 8 3 . 3 . 2 1)

ARC97-716 1A14 OL+T12+S12N23+AT11 SRM BOOKYEN

$$\text{BETAT} (2) = -4.289$$

SECTION (1) SAN BOGOTA

DEPENDENT VARIABLE CPA

[illegible]

6743 .9500

三

- .0572
.0840
.1448
.1782
.4094
.0168
- .1581
- .1199

BEAT (3) = -1.229 BEAT (3) = -.110

SECTION (1) SAM BOOSTER

DEPENDENT VARIABLE CP

[illegible]

3723 .9590

743	.0000	-.0014
45,000		.0906
60,000		.1292
35,000		.3136
80,000		.2606
225,000		-.0600
270,000		-.1261
315,000		-.0707

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(083311)

ARCST-716 1A14 CL-112+312MS+AT11 SRM BOOSTER

ALPHAT (2) = -4.220 BETAT (4) = 3.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4680	.6030	.7100	.8330	.9000	.9170	.9390
PHI															
.000	1.3970	.0346	.1612	-.2307	-.2191	-.2317	-.0561	.0045	-.0291	-.0239	.2246	-.0696	-.1062	.0705	.1083
45.000		.0996	.1013	-.2774	-.2099	-.1321							-.1007	.1156	.1130
90.000		.1247	.1319	-.2607	-.2216	-.1266	-.0575	-.1455	-.0845	-.1156	.1255	-.0530	-.1176	.1199	.1508
135.000		.1771	.2643	-.2277	-.1614	-.1317							-.1814	.0837	.2393
180.000	1.3970	.2396	.4396	-.1685	-.0960	-.0634	.0665	-.0664	-.1205	-.0611	.0458	-.1314	-.2067	.0264	.1551
225.000		.2357	.9873	-.0602	-.2009	.0395	.1697						-.1560	-.1019	-.0916
270.000		.1966	1.1090		-.3634	-.3414	-.1877	-.0351			.3145	-.2236	-.1767	-.1323	-.1168
315.000		.0603	.2482	-.2335	-.3260	-.3741	-.1671						-.2276	-.0134	.0161

X/L3 .9580

PHI

.000	.0028
45.000	.1080
90.000	.1611
135.000	.2655
180.000	.1408
225.000	-.0916
270.000	-.1069
315.000	.0337

ALPHAT (2) = -4.220 BETAT (5) = 7.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4680	.6030	.7100	.8330	.9000	.9170	.9390
PHI															
.000	1.3480	-.0247	.1378	-.2263	-.2275	-.2316	.0773	.0270	.0316	.0101	.1629	-.1039	-.1797	.0548	.2251
45.000		.0032	.0891	-.2816	-.2133	-.1328							-.1314	.1823	.2351
90.000		.0291	.0814	-.3025	-.2476	-.1171	.0296	-.0176	-.0651	-.0509	.1482	-.0847	-.1433	.1509	.1320
135.000		.0915	.1866	-.2546	-.2250	-.1478							-.1936	.0864	.1383
180.000	1.3480	.1680	.3864	-.1797	-.1068	.0339	-.0486	.1045	-.1086	.1389	.0867	-.1673	-.1333	.0176	-.0204
225.000		.1635	.3256	-.0546	-.1834	.1253	.0329						-.1684	-.1416	-.1165
270.000		.1182	1.0970		-.3421	-.3020	-.2301	.0290			.2564	-.2300	-.1797	-.1682	-.1293
315.000		.0802	.2550	-.2273	-.3092	-.3364	-.1456						-.2056	.0206	.0686

X/L3 .9580

PHI

.000	.2707
45.000	.1600
90.000	.1180
135.000	.0996
180.000	-.0434



TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03311)

ARC57-716 1A14 Q1-T12-S12MB3-A711 SRM BOOSTER

DATE 27 JAN 75

ALPHAT (2) = -4.250 BETAT (3) = 7.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .9360

PHI

229.000 -.1088

270.000 -.1188

313.000 -.0828

ALPHAT (3) = -.300 BETAT (1) = -7.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0960 .1120 .1440 .2010 .2870 .3730 .4680 .6030 .7180 .8330 .9000 .9170 .9360

PHI

.000 1.3980 .2788 .3991 .4148 .4240 .4363 .4481 .4603 .4722 .4846 .4968 .5088 .5208 .5328

49.000 .3725 .4163 .4603 .5043 .5483 .5923 .6363 .6803 .7243 .7683 .8123 .8563 .8993 .9423

90.000 .3763 .4203 .4643 .5083 .5523 .5963 .6403 .6843 .7283 .7723 .8163 .8603 .9043 .9483

135.000 .2812 .3252 .3692 .4132 .4572 .5012 .5452 .5892 .6332 .6772 .7212 .7652 .8092 .8532

180.000 .2522 .2962 .3402 .3842 .4282 .4722 .5162 .5602 .6042 .6482 .6922 .7362 .7802 .8242

225.000 .2648 .3088 .3528 .3968 .4408 .4848 .5288 .5728 .6168 .6608 .7048 .7488 .7928 .8368

270.000 .2393 .2833 .3273 .3713 .4153 .4593 .5033 .5473 .5913 .6353 .6793 .7233 .7673 .8113

313.000 .2393 .2833 .3273 .3713 .4153 .4593 .5033 .5473 .5913 .6353 .6793 .7233 .7673 .8113

X/L3 .9360

PHI

.000 -.0482

49.000 .2082

90.000 .2033

135.000 .0322

180.000 -.0315

225.000 .0308

270.000 -.1095

313.000 -.1723

ALPHAT (3) = -.250 BETAT (2) = -4.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0960 .1120 .1440 .2010 .2870 .3730 .4680 .6030 .7180 .8330 .9000 .9170 .9360

PHI

.000 1.4730 .8182 .3428 .1884 .1268 .1551 .1102 .0396 .0031 .0157 .2154 .0929 .0088 .0044

49.000 .2908 .3503 .3900 .4348 .4742 .5186 .5630 .6074 .6518 .6962 .7406 .7850 .8294 .8738

90.000 .3126 .3583 .4040 .4496 .4952 .5408 .5864 .6320 .6776 .7232 .7688 .8144 .8600 .9056

135.000 .2918 .3375 .3832 .4288 .4744 .5200 .5656 .6112 .6568 .7024 .7480 .7936 .8392 .8848

180.000 .2890 .3347 .3804 .4260 .4716 .5172 .5628 .6084 .6540 .7000 .7456 .7912 .8368 .8824

225.000 .1827 .2284 .2740 .3196 .3652 .4108 .4564 .5020 .5476 .5932 .6388 .6844 .7300 .7756

270.000 .1827 .2284 .2740 .3196 .3652 .4108 .4564 .5020 .5476 .5932 .6388 .6844 .7300 .7756

313.000 .1827 .2284 .2740 .3196 .3652 .4108 .4564 .5020 .5476 .5932 .6388 .6844 .7300 .7756

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ARC07-716 1A14 CL-712-S12M23-A711 SRM BOOSTER

(003811)

ALPHA (3) = -.200 BETAT (2) = -4.120

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4600	.6030	.7160	.8330	.9000	.9170	.9360
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L

Phi

.0000

.0104

.0230

.0330

.0430

.0530

.0630

.0730

.0830

.0930

.1030

.1130

.1230

.1330

.1430

.1530

.1630

.1730

.1830

.1930

.2030

.2130

.2230

.2330

.2430

.2530

.2630

.2730

.2830

.2930

.3030

.3130

.3230

.3330

.3430

.3530

.3630

.3730

.3830

.3930

.4030

.4130

.4230

.4330

.4430

ALPHA (3) = -.200 BETAT (3) = -.150

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4600	.6030	.7160	.8330	.9000	.9170	.9360
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													

M/L	.0360														
Phi															
270.000	.1808	1.1860													
315.000	.1783	.4033													



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A34B - VOL. 2

ARC97-716 1A34 CR+T12+SI2MES+J711 SRM BOOSTER (0033311)

ALPHAT (3) = -.000 BETAT (4) = 3.000

SECTION (1) SRM BOOSTER		DEPENDENT VARIABLE CP									
X/L		.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060
PHI											
.000	1.4400	.2717	.3414	-.2101	-.1576	-.1868	-.0350	-.0005	-.0131	-.0036	-.1413
45.000	.8333	.2228	-.2390	-.1951	-.1426						-.0565
90.000	.2504	.2093	-.2713	-.1971	-.0912	-.0019	.0263	.0025	-.0403	.2500	.0308
135.000	.2384	.2074	-.2367	-.1881	-.1135	.0260	-.0555	-.0264	.0402	.1749	-.1191
180.000	1.4400	.2373	.3991	-.2054	-.1456	-.1409	.0260	-.0555	-.0264	.0402	-.1191
225.000		.2720	.4740	-.1325	-.2843	-.2800	.1024				-.1472
270.000		.2641	1.1870	-.2693	-.3244	-.1993	-.1247				-.1717
315.000		.2645	.4123	-.1301	-.2850	-.2810	.0016				-.1803

X/L

PHI
 .000
 45.000
 90.000
 135.000
 180.000
 225.000
 270.000
 315.000

ALPHAT (3) = -.000 BETAT (4) = 7.000

SECTION (1) SRM BOOSTER		DEPENDENT VARIABLE CP									
X/L		.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060
PHI											
.000	1.3910	.1104	.2161	-.2227	-.1782	-.1951	.0218	.0476	.0480	.0212	-.1484
45.000	.0309	.1217	-.2876	-.2237	-.1563						-.1019
90.000	.0250	.0590	-.3003	-.2207	-.0529	.1023	.0603	.0150	-.0266	.2062	-.1082
135.000	.0453	.1778	-.2611	-.2130	-.1327	-.0270	-.0174	-.0309	.0620	.1726	-.1415
180.000	1.3910	.0991	.3182	-.2054	-.1886	-.0561	-.0270	-.0309	.0620	.1726	-.1415
225.000		.1481	.4370	-.1178	-.2533	-.1845	.1097				-.1530
270.000		.1578	1.1300	-.2365	-.2964	-.1946	-.0428				-.1683
315.000		.1703	.4160	-.1327	-.2416	-.2541	.0295				-.1609

X/L

PHI
 .000
 45.000
 90.000
 135.000
 180.000

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14E - VOL. 2

(003811)

ARCSP-716 1A14 01+718+818E9+711 SRM B20610R

ALPHAT (3) = -.300 BETAT (3) = 7.850

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .9500

PHI

45.0000 -.0029
870.0000 -.1105
315.0000 -.0096

ALPHAT (4) = 3.930 BETAT (4) = -7.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .0000

PHI

45.0000 1.0340 .3608 .3608 -.1337 -.0542 -.0930 -.0297 .0439 .0234 .0369 .2737 -.0629 -.1742 -.0022 .0319
45.0000 .4081 .4387 -.1264 -.0646 -.0066 -.0261 -.0561 .0666 .0775 .3616 .1541 .0601 .0601 .0601 .0601 .0601
90.0000 .3530 .3729 .1619 .0950 .0416 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665
135.0000 .2503 .2630 .2023 .1430 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665 .0665
180.0000 1.0340 .1093 .2486 .2093 .1430 .1320 .0805 .0663 .0641 .0722 .9522 .0114 .2259 .1567 .1371
225.0000 .1297 .2476 .2239 .1821 .2943 .0350 .0350 .0350 .0350 .0350 .0350 .0350 .0350 .0350 .0350 .0350
270.0000 .2244 1.1400 .2244 1.1400 .2244 1.1400 .2244 1.1400 .2244 1.1400 .2244 1.1400 .2244 1.1400 .2244 1.1400
315.0000 .2332 .5463 .0632 .2206 .1993 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270

X/L3 .0500

PHI

45.0000 .0326
45.0000 .2894
90.0000 .3186
135.0000 .0732
180.0000 .2066
225.0000 .1391
270.0000 .0730
315.0000 .0604

ALPHAT (4) = 3.930 BETAT (4) = -4.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .0000

PHI

45.0000 1.3030 .3076 .4312 .1903 .0729 .1215 .0225 .0237 .0098 .0121 .1690 .0595 .1456 .0346 .0889
45.0000 .3413 .3931 .1520 .1042 .0612 .0612 .0612 .0612 .0612 .0612 .0612 .0612 .0612 .0612 .0612 .0612
90.0000 .2942 .3160 .2040 .1480 .0601 .0601 .0601 .0601 .0601 .0601 .0601 .0601 .0601 .0601 .0601 .0601
135.0000 .2136 .2309 .2316 .1702 .0764 .0764 .0764 .0764 .0764 .0764 .0764 .0764 .0764 .0764 .0764 .0764
180.0000 1.3030 .1316 .2646 .2199 .1629 .1629 .1629 .1629 .1629 .1629 .1629 .1629 .1629 .1629 .1629 .1629
225.0000 .1136 .2731 .2316 .2013 .2946 .0449 .0449 .0449 .0449 .0449 .0449 .0449 .0449 .0449 .0449 .0449



ARC97-716 1A14 Q1712+SIZE5+AT11 SRM BOOSTER

00033311

ALPHA7 (4) = 3.940 BETAT (4) = 3.640

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860		
PH1	.0000	.2485	.3824	.5079	.6240	.7311	.8285	.9160	.9935	.1.0610	.1.1185	.1.1660	.1.2035	.1.2310	.1.2485	.1.2560	.1.2535	.1.2410	.1.2185	.1.1860	.1.1435	.1.0910	.1.0285	.0960	.0535	.0110	-.0315	-.0740	-.1165	-.1590	-.2015	
PH2	.0000	.1864	.2711	.3440	.4060	.4579	.5000	.5325	.5555	.5685	.5715	.5640	.5465	.5190	.4815	.4340	.3765	.3090	.2315	.1440	.0465	-.0510	-.1435	-.2360	-.3285	-.4210	-.5135	-.6060	-.6985	-.7910	-.8835	-.9760
PH3	.0000	.0734	.1112	.1425	.1670	.1845	.1940	.1955	.1880	.1715	.1460	.1115	.0690	.0165	-.0360	-.0885	-.1410	-.1935	-.2460	-.2985	-.3510	-.4035	-.4560	-.5085	-.5610	-.6135	-.6660	-.7185	-.7710	-.8235	-.8760	-.9285
PH4	.0000	.0393	.0742	.1081	.1390	.1655	.1875	.2050	.2180	.2265	.2305	.2300	.2250	.2155	.2015	.1830	.1600	.1325	.0900	.0325	-.0300	-.0825	-.1350	-.1875	-.2400	-.2925	-.3450	-.3975	-.4500	-.5025	-.5550	-.6075
PH5	.0000	.0163	.0363	.0563	.0763	.0963	.1163	.1363	.1563	.1763	.1963	.2163	.2363	.2563	.2763	.2963	.3163	.3363	.3563	.3763	.3963	.4163	.4363	.4563	.4763	.4963	.5163	.5363	.5563	.5763	.5963	.6163
PH6	.0000	.1368	.1100	.0774	.0390	-.0045	-.0430	-.0765	-.1040	-.1255	-.1410	-.1515	-.1570	-.1585	-.1560	-.1505	-.1420	-.1305	-.1160	-.0985	-.0780	-.0545	-.0280	.0015	.0260	.0515	.0780	.1055	.1340	.1635	.1930	.2225
PH7	.0000	.2349	.3508	.4667	.5826	.6985	.8144	.9303	.1.0462	.1.1621	.1.2780	.1.3939	.1.5098	.1.6257	.1.7416	.1.8575	.1.9734	.2.0893	.2.2052	.2.3211	.2.4370	.2.5529	.2.6688	.2.7847	.2.9006	.3.0165	.3.1324	.3.2483	.3.3642	.3.4801	.3.5960	.3.7119

X/LB .9500

PH1 .0000

PH2 .0000

PH3 .0000

PH4 .0000

PH5 .0000

PH6 .0000

PH7 .0000

PH8 .0000

ALPHA7 (4) = 3.940 BETAT (5) = 7.640

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LB	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	.1020	
PH1	.0000	.2410	.3824	.5079	.6240	.7311	.8285	.9160	.9935	.1.0610	.1.1185	.1.1660	.1.2035	.1.2310	.1.2485	.1.2560	.1.2535	.1.2410	.1.2185	.1.1860	.1.1435	.1.0910	.1.0285	.0960	.0535	.0110	-.0315	-.0740	-.1165	-.1590	-.2015	-.2440
PH2	.0000	.1864	.2711	.3440	.4060	.4579	.5000	.5325	.5555	.5685	.5715	.5640	.5465	.5190	.4815	.4340	.3765	.3090	.2315	.1440	.0465	-.0510	-.1435	-.2360	-.3285	-.4210	-.5135	-.6060	-.6985	-.7910	-.8835	-.9760
PH3	.0000	.1200	.1453	.1611	.1680	.1655	.1535	.1310	.0985	.0560	.0035	-.0490	-.1015	-.1540	-.2065	-.2590	-.3115	-.3640	-.4165	-.4690	-.5215	-.5740	-.6265	-.6790	-.7315	-.7840	-.8365	-.8890	-.9415	-.9940	-.1.0465	-.1.0990
PH4	.0000	.0734	.1112	.1425	.1670	.1845	.1940	.1955	.1880	.1715	.1460	.1115	.0690	.0165	-.0360	-.0885	-.1410	-.1935	-.2460	-.2985	-.3510	-.4035	-.4560	-.5085	-.5610	-.6135	-.6660	-.7185	-.7710	-.8235	-.8760	-.9285
PH5	.0000	.0393	.0742	.1081	.1390	.1655	.1875	.2050	.2180	.2265	.2305	.2300	.2250	.2155	.2015	.1830	.1600	.1325	.0900	.0325	-.0300	-.0825	-.1350	-.1875	-.2400	-.2925	-.3450	-.3975	-.4500	-.5025	-.5550	-.6075
PH6	.0000	.0163	.0363	.0563	.0763	.0963	.1163	.1363	.1563	.1763	.1963	.2163	.2363	.2563	.2763	.2963	.3163	.3363	.3563	.3763	.3963	.4163	.4363	.4563	.4763	.4963	.5163	.5363	.5563	.5763	.5963	.6163
PH7	.0000	.1368	.1100	.0774	.0390	-.0045	-.0430	-.0765	-.1040	-.1255	-.1410	-.1515	-.1570	-.1585	-.1560	-.1505	-.1420	-.1305	-.1160	-.0985	-.0780	-.0545	-.0280	.0015	.0260	.0515	.0780	.1055	.1340	.1635	.1930	.2225
PH8	.0000	.2349	.3508	.4667	.5826	.6985	.8144	.9303	.1.0462	.1.1621	.1.2780	.1.3939	.1.5098	.1.6257	.1.7416	.1.8575	.1.9734	.2.0893	.2.2052	.2.3211	.2.4370	.2.5529	.2.6688	.2.7847	.2.9006	.3.0165	.3.1324	.3.2483	.3.3642	.3.4801	.3.5960	.3.7119

X/LB .9500

PH1 .0000

PH2 .0000

PH3 .0000

PH4 .0000

PH5 .0000

PH6 .0000

PH7 .0000

PH8 .0000



DATE 07 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0003011

ARC07-716 1A14 Q1-712-S12MS-A711 SHM BOOSTER

ALPHAT (1) = 3.040 BETAT (1) = 7.000

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0300

PH1

225.000 -.0760
270.000 -.0901
315.000 -.0911

ALPHAT (2) = 0.130 BETAT (2) = -7.000

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1440 .2010 .2670 .3730 .4680 .6030 .7100 .8330 .9000 .9170 .9300

PH1

1.4900 .4700 .3309 -.1033 .0502 -.0420 -.0125 .0500 .0667 .0848 .3103 -.0179 -.0909 .1350 .2100
45.000 .4821 .3441 -.1128 -.0357 .0109 .0079 -.1029 .0173 .0836 .3106 .1767 .0622 .3345 .3182
90.000 .3328 .4017 .1620 -.1276 -.0949 -.0979 -.1029 .0173 .0836 .3106 .1767 .0622 .3345 .3182
135.000 .2031 .2381 -.2459 -.2036 -.1160 .0000 .0200 .1400 .3110 .0102 -.1972 -.0404 -.1473
180.000 1.4900 .1128 .2100 .2412 .1191 .1098 -.0645 -.0184 .0200 .1400 .3110 .0102 -.1972 -.0404 -.1473
225.000 .1276 .1042 -.2957 .2216 .2678 .0731 .0309 .3285 -.2230 -.1531 .0329 .0149
270.000 .2302 1.0000 .2206 .2341 .0023 .0023 .0023 .0023 .0023 .0023 .0023 .0023 .0023 .0023
315.000 .3709 .0340 -.0114 -.1191 .1098 .0203 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000

X/L3 .0300

PH1

.0000 .2000 .4000 .4003 .2002 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
45.000 .2000 .4000 .4003 .2002 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
90.000 .2000 .4000 .4003 .2002 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
135.000 -.0314 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
180.000 .2199 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
225.000 .1457 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
270.000 .0403 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
315.000 .0340 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000

ALPHAT (3) = 0.180 BETAT (3) = -4.220

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1440 .2010 .2670 .3730 .4680 .6030 .7100 .8330 .9000 .9170 .9300

PH1

1.4900 .4240 .3152 -.1172 -.0113 -.0715 -.0197 .0502 .0201 .0393 .1600 -.0275 -.0791 .1803 .2506
45.000 .3997 .4790 .1411 .0010 .0532 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
90.000 .2564 .3149 .2200 .1764 .1401 .1443 .1363 .0230 .0034 .2710 .1300 .0301 .2451 .2233
135.000 .1340 .1793 .2746 .2247 .1242 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
180.000 1.4900 .0594 .1092 .2503 .1348 .1891 .0024 .0000 .0791 .2907 .0145 .1932 .0004 .0910
225.000 .0640 .0710 .3193 .2573 .2085 .0020 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
270.000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
315.000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000

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DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 478

ARCS7-716 1A14 Q1712-S12M23-A711 9MM BOOSTER

(083511)

ALPHAT (3) = 0.120 BETAT (2) = -4.220

SECTION (1) 9MM BOOSTER

DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520			
P ₀₁																																
270.000																																
319.000																																

X/L

P₀₁

.000

.0340

.0680

.1020

.1360

.1700

.2040

.2380

.2720

.3060

.3400

.3740

.4080

.4420

.4760

.5100

.5440

.5780

.6120

.6460

.6800

.7140

.7480

.7820

.8160

.8500

.8840

.9180

.9520

ALPHAT (3) = 0.120 BETAT (2) = -.170

SECTION (1) 9MM BOOSTER

DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520		
P ₀₁																															
270.000																															
319.000																															

X/L

P₀₁

.000

.0340

.0680

.1020

.1360

.1700

.2040

.2380

.2720

.3060

.3400

.3740

.4080

.4420

.4760

.5100

.5440

.5780

.6120

.6460

.6800

.7140

.7480

.7820

.8160

.8500

.8840

.9180

.9520

0000011

ARGO7-71.6 1A14 Q1+T12+U12M2+AT11 SEM BOOSTER

ALPHA1 (S) = 0.100 BETA1 (S) = 7.030

SECTION (1) SEM BOOSTER DEPENDENT VARIABLE CP

U/LB	.0500
PW1	
823.000	-.0498
870.000	-.0498
915.000	.0088



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 481

ARC87-716 1A14 Q1+T12+SIENE3+AT11 SUN BOOSTER

083312) (18 JAN 74)

REFERENCE DATA

SERP = 2.4218 36.71. ZWIP = 29.9600 INCHES
 LREF = 36.7090 INCHES VREF = .0000 INCHES
 SERP = 36.7090 INCHES ZWIP = .0000 INCHES
 SCALE = .0300 SCALE

MACH = 2.2500 ELEVON = .000
 RLODER = .0000 SPURK = .000

PARAMETRIC DATA

ALPHA7(1) = -0.400 BETAT(1) = -0.100

SECTION (1) SUN BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1150	.1440	.2010	.2870	.3730	.4690	.5030	.7160	.8330	.8800	.9170	.9360
Phi	.000	1.6800	.1891	.1830	-.0706	-.0131	-.6832	-.1597	-.1496	-.1483	-.0579	-.1838	-.1779	-.1813	-.1291
45.000		.2740	.2178	-.1009	-.0967	-.0424							-.1771	-.1410	-.1032
60.000		.3948	.3817	-.0230	-.0074	-.0026	-.0124	-.0011	-.0483	-.0963	-.1009	-.1308	-.1516	-.1012	.0054
135.000		.5233	.5082	.0277	.0635	.1832							-.0529	-.0179	.1308
180.000		1.6800	.3433	.5311	.0794	.1997	.0894	.3008	.1366	.1153	.1429	.0339	-.0866	-.0849	.0378
225.000			.3988	.9371	.2152	.0867	-.0317	.2988					-.2078	-.1853	-.1162
270.000			.2124	1.5300		-.2901	-.2053	.0480	.0315		.0942	-.1912	-.1690	-.1102	-.0860
315.000			.1356	.3409	-.0673	-.2336	-.1592						-.1534	-.1533	-.1244

X/L = .9360

Phi
 .000
 45.000
 60.000
 135.000
 180.000
 225.000
 270.000
 315.000

ALPHA7(2) = -0.360 BETAT(2) = -0.110

SECTION (2) SUN BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1150	.1440	.2010	.2870	.3730	.4690	.5030	.7160	.8330	.8800	.9170	.9360
Phi	.000	1.7980	.1266	.1132	-.0942	-.0566	-.1182	-.1650	-.1618	-.2150	-.0953	-.1115	-.1379	-.0788	-.0279
45.000		.1983	.1418	-.1315	-.1288	-.0591							-.1700	-.1161	-.0870
60.000		.2879	.2662	-.0768	-.0623	-.0559	-.0716	-.0701	-.1216	-.1500	-.1592	-.1746	-.1968	-.1890	-.0749
135.000		.6274	.4145	-.0166	.0084	.0830							-.1892	-.0998	.0169
180.000		1.7980	.4923	.4862	.0442	.1332	.0505	.1322	.0804	.0594	.0709	-.0359	-.1294	-.1291	.0013
225.000			.3984	.9088	.1947	.0791	-.0372	.3423					-.2088	-.1259	-.1143
270.000			.1734	1.3220		-.2591	-.2047	.0084	.1849	-.1904			-.1315	-.1121	-.0958
315.000			.0861	.2919	-.0878	-.2376	-.1824						-.1417	-.0829	-.0862

X/L = .9360

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TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003312)

ARC97-716 1A14 Q1+712+312MS+AT11 SHM BOOSTER

ALPHAT (1) = -0.390 BETAT (2) = -4.110

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9380

PHI
.000
45.000
90.000
135.000
180.000
225.000
270.000
315.000

ALPHAT (1) = -0.390 BETAT (3) = -.020

SECTION (1) SHM BOOSTER

X/L3 .0000 .0340 .0680 .1020 .1360 .1700 .2040 .2380 .2720 .3060 .3400 .3740 .4080 .4420 .4760 .5100 .5440 .5780 .6120 .6460 .6800 .7140 .7480 .7820 .8160 .8500 .8840 .9180 .9520 .9860 .1020

PHI
.000
45.000
90.000
135.000
180.000
225.000
270.000
315.000

X/L3 .9380

PHI
.000
45.000
90.000
135.000
180.000
225.000
270.000
315.000



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(003512)

ARC97-716 1A14 CL-112+112ME+AT11 3RM BOOSTER

ALPHAT (1) = -0.418 BETAT (1) = 0.040

SECTION (1) 3RM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9580

PHI
225.000 -.0644
270.000 -.0903
315.000 -.0327

ALPHAT (2) = -4.300 BETAT (2) = -0.070

SECTION (1) 3RM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.8900	.9170	.9380
PHI	.0000	1.0930	.2308	.1798	-.0981	-.0293	-.0820	-.0438	-.0602	-.0481	-.0097	-.0087	-.1302	-.0380	-.0537
45.000			.3380	.2844	-.0708	-.0605	.0057						-.0691	-.0139	-.0448
90.000			.4108	.4044	-.0182	.0020	.0138	.0159	.0122	-.0275	-.0555	-.0663	-.0639	.0020	.1215
135.000			.4621	.4498	-.0029	.0187	.0847						-.0203	.0486	.1928
180.000			.4328	.3687	-.0042	.1282	.0347	.2704	.1130	.1288	.1543	.0650	-.0670	-.0545	.0871
225.000			.3208	.8072	.1730	-.0074	-.1102	.1886					-.2066	-.1604	-.1029
270.000			.2244	1.5640	-.2596	-.2317	.0661	-.0122			.1898	-.1779	-.1486	-.0848	-.0929
315.000			.1955	.4603	.0217	-.1894	-.2195	-.0246				-.1491	-.0708	-.0392	

X/L3 .9580

PHI
225.000 -.0773
270.000 -.0441
315.000 .1473
360.000 .1542
405.000 .0488
450.000 -.1333
495.000 -.0992
540.000 -.0832

ALPHAT (2) = -4.280 BETAT (2) = -4.080

SECTION (1) 3RM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.8900	.9170	.9380
PHI	.0000	1.7860	.1808	.1286	-.1032	-.0080	-.0876	-.0622	-.0576	-.0300	-.0203	-.0846	-.1242	-.0531	-.0448
45.000			.8507	.8044	-.1042	-.0996	-.0197						-.0865	.0075	.0356
90.000			.3103	.2930	-.0648	-.0511	.0349	.0024	-.0317	-.0780	-.1097	-.0995	-.0573	.0093	.1152
135.000			.3881	.3590	-.0432	-.0234	.0398						-.0762	-.0481	.1008
180.000			.3750	.3501	-.0385	.1042	.0024	.1907	.0430	.0284	.0909	-.0027	-.1080	-.1098	-.0091
225.000			.8872	.7791	.1661	-.0063	-.1170	.1013					-.1972	-.1287	-.0948



DATE 27 JAN 76

TABULATED PRESSURE DATA - 1AS4B - VOL. 2

PAGE 485

ARC97-716 1AS4 CR+T12-S12M25-AT11 SRM BOOSTER (083312)

ALPHA1 (2) = -4.280 BETA1 (2) = -4.020

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
PHI															
270.000		.1803	1.9680		-.2590	-.2292	-.0524	-.0034							
315.000		.1477	.4367	.0136	-.1941	-.2310	-.0831								

X/L

.9360

PHI

.0000

45.000

.0351

60.000

.1172

135.000

.0691

160.000

-.0049

225.000

-.1298

270.000

-.0769

315.000

-.0703

ALPHA1 (2) = -4.280 BETA1 (3) = -.030

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
PHI															
270.000		.1276	.1044	-.1144	-.0429	-.1193	-.1448	-.0633	-.0256	-.0252	-.0122	-.0732	-.1008	.0245	.0045
315.000		.1853	.1353	-.1335	-.1283	-.0486									
45.000		.2058	.1868	-.1075	-.0982	-.0751	-.0449	.0173	-.0682	-.1336	.0043	-.0678	-.0994	-.0014	.0726
60.000		.2683	.2598	-.0826	-.0648	-.0099									
135.000		.3132	.3028	-.0557	.0419	-.0322	.0887	.0985	-.0007	-.0056	.0030	-.0935	-.1682	-.1525	-.0823
160.000		.2304	.7549	.1556	-.0093	-.1197	.1177								
225.000		.1392	1.9420	-.2578	-.2320	-.0640		-.0354							
270.000		.1036	.4028	.0066	-.1992	-.2394	-.0953								
315.000															

X/L

.9360

PHI

.0000

45.000

.0419

60.000

.0729

135.000

-.0053

160.000

-.0596

225.000

-.0760

270.000

-.0731

315.000

-.0342

ORIGINAL PAGE 1
OF POOR QUALITY

(083318)

ARC37-716 1A14 Q171E-812MS-A711 SRM BOOSTER

ALPHA7 (2) = -4.290 BETAT (4) = 3.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0980	.1190	.1440	.2010	.2870	.3730	.4680	.6030	.7160	.8330	.9170	.9560
PM1														
.000	1.5730	.0951	.0690	-.1274	-.0888	-.1337	-.1455	-.0268	-.0080	-.0274	-.0136	-.0439	-.0451	-.0219
49.000		.1167	.1011	-.1512	-.1303	-.0836							-.0606	-.0808
90.000		.1466	.1361	-.1364	-.1283	-.1019	-.0632	-.0825	-.1229	-.0755	.0186	-.0621	-.0961	.0107
139.000		.2042	.2001	-.1162	-.0974	-.0409							-.1516	-.0320
180.000	1.5730	.2706	.2651	-.0607	.0301	-.0477	.1376	.0373	-.0497	-.0217	.0483	-.1464	-.1665	7.1218
229.000		.2539	.6228	.1511	-.0039	-.1018	.1928						-.1437	-.0949
270.000		.1247	1.5090		-.2563	-.2257	-.0190	-.0636			.2736	-.1837	-.1455	-.1233
319.000		.0966	.3744	-.0008	-.1912	-.2292	-.0775						-.1928	-.1072

X/L

.9560

PM1

.0000
49.000
90.000
139.000
180.000
229.000
270.000
319.000

ALPHA7 (2) = -4.290 BETAT (5) = 7.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0980	.1190	.1440	.2010	.2870	.3730	.4680	.6030	.7160	.8330	.9170	.9560
PM1														
.000	1.4510	.0208	.0632	-.1363	-.0925	-.1541	-.1221	-.0080	-.0276	-.0335	-.0133	-.0072	-.0663	-.0034
49.000		.0537	.0450	-.1659	-.1467	-.0980							-.0241	.0914
90.000		.0864	.0664	-.1617	-.1558	-.1184	-.0603	-.0666	-.0997	-.1354	.0361	-.0300	-.0721	.0196
139.000		.1296	.1320	-.1405	-.1267	-.0995							-.1290	-.0216
180.000	1.4510	.2327	.2653	-.0366	.0036	.0617	.0703	-.0288	-.0729	-.0646	-.0050	-.1551	-.1138	-.0426
229.000		.2182	.6148	.1822	.0048	-.0654	.1603						-.1141	-.1086
270.000		.1035	1.4620		-.2526	-.2169	-.0186	-.1261			.2128	-.1663	-.1334	-.1012
319.000		.0618	.3049	.0075	-.1780	-.2201	-.0843						-.1898	-.1118

X/L

.9560

PM1

.0000
49.000
90.000
139.000
180.000



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083112)

ARC07-716 1A14 CR+TIR+SIENES+AT11 SRM BOOSTER

ALPHAT (2) = -4.89C BETAT (5) = 7.960

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9300

Phi

225.000 -.0048
270.000 -.0028
315.000 -.0506

ALPHAT (3) = -.310 BETAT (1) = -8.050

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1400 .2010 .2670 .3730 .4880 .6030 .7180 .8330 .9470 .9580

Phi

.0000 1.8890 .3835 .2418 -.0569 .0724 -.0102 -.0787 -.0111 -.0170 .0147 .1469 -.0328 -.1159 -.0943 .0162
45.000 .3666 .5967 -.0399 -.0263 .0362 .0210 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
90.000 .4126 .4126 -.0140 .0057 .0210 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
135.000 .3949 .3949 -.0357 -.0199 .0429 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
180.000 1.8890 .3339 .2832 -.0566 .0754 -.0106 -.0656 .1729 .1190 .0969 .1609 .1065 -.0269 .0013 .1200
225.000 .2521 .6716 .1156 -.0903 -.1046 -.0022 .0516 .3017 -.1703 -.1431 -.0469 -.0160
270.000 .2164 1.6000 .2164 .1600 .1633 -.0548 -.0516
315.000 .2416 .6320 .1102 -.1032 -.1267 -.0209

X/L3 .9300

Phi

.0000 .0855
45.000 .2148
90.000 .3096
135.000 .2340
180.000 .0468
225.000 -.1360
270.000 -.0536
315.000 -.0900

ALPHAT (3) = -.310 BETAT (2) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1400 .2010 .2670 .3730 .4880 .6030 .7180 .8330 .9470 .9580

Phi

.0000 1.7900 .2684 .2539 -.0865 .0231 -.0515 -.0834 -.0180 -.0102 .0081 .1467 -.0438 -.1000 -.0212 .0321
45.000 .3036 .2744 -.0753 -.0569 -.0137 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
90.000 .3166 .3147 -.0581 -.0446 -.0221 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
135.000 .3092 .2993 -.0704 -.0513 -.0059 .0569 .0334 .0663 .0420 .0363 .0690 .0501 .2333 .3227
180.000 1.7900 .2771 .2425 -.0694 .0209 -.0417 -.0766 .1265 .0655 .0356 .1229 .0546 -.0732 -.0576 .0692
225.000 .2172 .6479 .1067 -.0866 -.1171 -.0056
270.000 .2172 .6479 .1067 -.0866 -.1171 -.0056

DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 489

ARC97-716 1A14 CR+712+512MS+AT11 SRM BOOSTER

0033312)

ALPHAT (3) = -.310 BETAT (2) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100
Phi																
270.000																
315.000																

Phi

270.000

315.000

X/L3

.0000

Phi

.0340

.0680

.1020

.1360

.1700

.2040

.2380

.2720

.3060

.3400

.3740

.4080

.4420

.4760

.5100

ALPHAT (3) = -.300 BETAT (3) = -.100

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100
Phi																
270.000																
315.000																

Phi

270.000

315.000

X/L3

.0000

Phi

.0340

.0680

.1020

.1360

.1700

.2040

.2380

.2720

.3060

.3400

.3740

.4080

.4420

.4760

.5100



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 489

ARC07-716 1A14 CR+718+312NE5+711 SAM BOOSTER

(003312)

ALPHA1 (3) = -.300 BETAT (4) = 3.970

SECTION (1) SAM BOOSTER

DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4660	.6030	.7180	.8330	.9000	.9170	.9360
PHI															
.000	.1745	.1822	-.0906	-.0208	-.1096	-.1034	-.0068	-.0005	-.0143	.0015	-.0241	-.0685	.0314	.1176	
45.000	.1594	.1576	-.1257	-.1003	-.0619					.0131	.0124	-.0071	.1086	.1325	
90.000	.1525	.1480	-.1253	-.1133	-.0759	-.0292	-.0066	-.0010	-.0041			-.0224	.1193	.1608	
135.000	.1562	.1563	-.1262	-.0968	-.0470					.1015	.0984	-.0794	.0124	.0994	
180.000	.1767	.1806	-.0927	-.0118	-.1032	.0635	.0475	-.0450	-.0126			-.1266	-.0829	-.0205	
225.000	.1591	.1567	.1206	-.0625	-.1669	.1896				.2707	-.1639	-.1286	-.0765	-.0731	
270.000	.1282	.15730	-.2475	-.2006	.0353	-.0661						-.1310	-.1234	-.1134	
315.000	.1221	.2961	.1203	-.0942	-.1796	-.0192						-.1533	-.0496	-.0326	

M/L

.9360

PHI

.0937

45.000

.1263

90.000

.1678

135.000

.0454

180.000

-.0760

225.000

-.0448

270.000

-.1021

315.000

-.0412

ALPHA1 (3) = -.310 BETAT (5) = 9.000

SECTION (1) SAM BOOSTER

DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4660	.6030	.7180	.8330	.9000	.9170	.9360
PHI															
.000	.1288	.1560	-.1101	-.0456	-.1228	-.1109	-.0220	-.0372	-.0220	-.0046	-.0156	-.0715	.0174	.1045	
45.000	.0913	.0913	-.1530	-.1314	-.0939							-.0004	.1177	.2077	
90.000	.0826	.0744	-.1532	-.1439	-.0910	-.0404	-.0036	.0016	-.0233	.1202	.0191	-.0053	.1033	.1318	
135.000	.0936	.0974	-.1530	-.1341	-.0824							-.0749	.0108	.0180	
180.000	.1366	.1583	-.1059	-.0304	-.1053	.0689	-.0248	-.0745	-.0397	.0567	-.1042	-.1127	-.0397	.0731	
225.000	.1376	.4728	.1136	-.0674	-.1570	.1714				.2452	-.1159	-.1159	-.0707	-.0516	
270.000	.1114	.15180	-.2486	-.1790	.0326	-.0936						-.1490	-.1093	-.0867	
315.000	.1315	.3331	.0876	-.0961	-.1756	.0025						-.1433	-.0439	.0306	

M/L

.9360

PHI

.1248

45.000

.1919

90.000

.1176

135.000

.1044

180.000

.0517

ARC87-756 1A14 CR+T18+312N2+AT11 8MM BOOSTER

(083312)

ALPHAT (3) = -.310 BETAT (3) = 8.020

SECTION (1) 8MM BOOSTER DEPENDENT VARIABLE CP

M/L3 .0300

Pn1

225.000 -.0570
 270.000 -.0602
 315.000 .0602

ALPHAT (4) = 3.980 BETAT (4) = -.0120

SECTION (1) 8MM BOOSTER DEPENDENT VARIABLE CP

M/L3 .0000

Pn1

1.6800 .4380 .3833 -.0082 .1270 .0382 -.0243 .0419 .0500 .0490 .1491 -.0149 -.0638 .0510 .1280
 45.000 .4376 -.0014 .0190 .0639 .0212 .0449 .0256 .0102 .0647 .0712 .1567 .1262 .3233 .3163
 90.000 .4186 .4209 -.0104 .0060 .0212 .0449 .0256 .0102 .0647 .0712 .1567 .1262 .3233 .3163
 135.000 .3399 .3080 -.0615 -.1.49 .0196 .0256 .0102 .0647 .0712 .1567 .1262 .3233 .3163
 180.000 1.6800 .2598 .2298 -.0598 .0369 -.0132 -.0598 .0563 .0666 .2998 .1511 .0312 .1175 .1618
 225.000 .1900 .4817 .0869 -.1580 -.1270 -.0284 .0561 .0561 .0561 .0561 .0561 .0561 .0561 .0561
 270.000 .2201 1.5910 .1108 -.1204 .0403 .0561 .0561 .0561 .0561 .0561 .0561 .0561 .0561 .0561
 315.000 .3188 .7973 .1773 -.0056 -.0711 .0595 .0595 .0595 .0595 .0595 .0595 .0595 .0595 .0595

M/L3 .0500

Pn1

.000 .1817
 45.000 .3143
 90.000 .3718
 135.000 .8958
 180.000 .0750
 225.000 -.1254
 270.000 -.0359
 315.000 .0000

ALPHAT (4) = 3.970 BETAT (4) = -.4000

SECTION (1) 8MM BOOSTER DEPENDENT VARIABLE CP

M/L3 .0000

Pn1

1.7800 .3886 .3221 -.0385 .1078 .0008 -.0471 .0091 .0594 .0245 .0658 -.0181 -.0542 .0667 .1235
 45.000 .3559 .3496 -.0448 -.0833 .0218 .0218 .0218 .0218 .0218 .0218 .0218 .0218 .0218 .0218
 90.000 .3036 .3127 -.0620 -.0488 .0294 -.0085 -.0017 .0242 .0406 .0472 .1023 .0716 .2966 .2822
 135.000 .2446 .2789 -.0969 -.0914 -.0113 .0113 .0113 .0113 .0113 .0113 .0113 .0113 .0113 .0113
 180.000 1.7800 .1903 .1758 -.0893 -.0103 -.0588 -.0890 .0501 .0368 .2031 .0886 -.0081 .0387 .1134
 225.000 .1490 .4482 .0182 -.1800 -.1323 -.0842 .0842 .0842 .0842 .0842 .0842 .0842 .0842 .0842



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 491

003312)

ARC97-710 1A14 C1+712+812H2+AT11 SRM BOOSTER

ALPHA1(4) = 3.070 BETA1(3) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0600 .1150 .1440 .2010 .2670 .3750 .4600 .6030 .7100 .8330 .8600 .9170 .9300

Pw1
270.000 .1804 1.9700
315.000 .2206 .7639 .1670 -.1447 -.1511 .0500 .0640
X/L3 .9500 .2705 -.1478 -.1047 -.1047 -.1217 -.0070 .0218

X/L3 .9500

Pw1

.0000

.1257

.2015

.2629

.2930

.3296

.3271

.270.000

.315.000

.0219

ALPHA1(4) = 3.000 BETA1(3) = -0.040

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0600 .1150 .1440 .2010 .2670 .3750 .4600 .6030 .7100 .8330 .8600 .9170 .9300

Pw1
270.000 .2110 .2934
315.000 .2606 .2775 .1033 -.0932 -.0712 -.0363
X/L3 .9500 .2159 .2225 .1290 .1219 -.0371Pw1
270.000 .1766 .1366 .1163 .1016 .0977 .0897 .0750 .0624
315.000 .1090 .3914 .0085 .1647 .1514 .1017 .1036
X/L3 .9500 .1455 .1550 .1614 .1486 .1032 .1036

X/L3 .9500

Pw1

.0000

.1536

.2181

.1899

.2343

.180.000

.227.000

.270.000

.315.000

.0822

ARC07-716 1A14 CR0718-81828-AT11 8AM BOOSTER

(083312)

ALPHAT (4) = 3.000 BETAT (4) = 3.250

SECTION (1) 8AM BOOSTER DEPENDENT VARIABLE CP

N/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	
PHI																														
.000	1.5340	.2830	.2898	-.0827	.0836	-.0314	-.0620	-.0135	-.0213	-.0371	-.0022	-.0165	-.0304	-.0793	.1483															
45.000		.1693	.2031	-.1099	-.0866	-.0370									.1399	.1686														
90.000		.1325	.1316	-.1327	-.1263	-.0564	-.0608	-.0361	.0046	-.0093	.0933	.0363	.0071	.1723	.2042															
135.000		.1045	.1089	-.1479	-.1278	-.0533									.1549	.0962	-.0316													
180.000	1.5540	.0843	.0816	-.1244	-.0661	-.1298	-.0398	.0424	-.0332	.0165	.1458	-.0326	1.1320	.0632	-.0176															
225.000		.0734	.2880	.0076	-.1735	.1627	-.0663								.1770	.1581	1.1581													
270.000		.1160	1.5240		-.1836	-.1547	-.0661	.1251							-.0303	-.0395	-.0770													
315.000		.2236	.6437	.2090	.0049	-.0593	-.0310								.2619	-.1363	-.1534	-.0316												

N/L3 .0000

PHI

.000	.1313
45.000	.1309
90.000	.1305
135.000	.1290
180.000	.1289
225.000	.1287
270.000	.1286
315.000	.1280

ALPHAT (4) = 4.000 BETAT (9) = 7.970

SECTION (1) 8AM BOOSTER DEPENDENT VARIABLE CP

N/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520
PHI																													
.000	1.4470	.2347	.8000	-.0766	.0306	-.0675	-.0666	-.0244	-.0931	-.0865	-.0011	-.0040																	
.05000		.1278	.1370	-.1366	-.1244	-.1006																							
.00000		.0713	.0713	-.1624	-.1566	-.1066	-.0675	-.0244	-.0027	-.0434	.0272	.0332																	
.1350000		.0532	.0486	-.1671	-.1394	-.0911																							
.1800000	1.4400	.0486	.0930	-.1303	-.1193	-.1465	-.0071	-.0042	-.0653	.0002	.1906	-.0704																	
.2250000		.0596	.2496	.0222	-.1730	-.1975	-.0103																						
.2700000		.1053	1.4700		-.1823	-.1499	-.0175	.0773																					
.3150000		.2163	.6993	.2073	.0093	-.0602	-.0076																						

N/L3 .0000

PHI

.000	.1300
45.000	.1296
90.000	.1292
135.000	.1277
180.000	.1276



ARC07-716 1A14 Q1+T12+312E5+AT11 SRM BOOSTER (003312)

ALPHA1 (1) = 4.000 BETA1 (1) = 7.370

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LB .0500

Pw1
225.000 .0197
270.000 -.0252
315.000 .0013

ALPHA1 (2) = 0.270 BETA1 (2) = -0.180

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LB .0000

Pw1
.000 1.0010
45.000 .2209
90.000 .3453
135.000 .1549
180.000 .0067
225.000 -.1148
270.000 -.0701
315.000 .1016

X/LB	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500
Pw1	.000	1.0010	.3408	.5548	.0730	.1093	.0878	.0304	.0718	.0713	.0761	.0806	.0842	.0036	.1884	.2319	.2648	.2948	.3208	.3448	.3688	.3928	.4168	.4408	.4648	.4888

X/LB .0500

Pw1
.000 .2209
45.000 .3453
90.000 .3453
135.000 .1549
180.000 .0067
225.000 -.1148
270.000 -.0701
315.000 .1016

ALPHA1 (3) = 0.240 BETA1 (3) = -4.120

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LB .0000

Pw1
.000 1.7390
45.000 .4187
90.000 .2053
135.000 .1937
180.000 .1268
225.000 .1320
270.000 .0931
315.000 .0931

X/LB	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500
Pw1	.000	1.7390	.4821	.6811	.0333	.1422	.0506	.0112	.0424	.0485	.0485	.0485	.0485	.0240	.1330	.2401	.3444	.4444	.5444	.6444	.7444	.8444	.9444	.0444	.1444	.2444

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 484

ARC97-716 1A14 CR-718-S12ME-AT11 SHM BOOSTER

003181P

ALPHAT(3) = 0.240 BETAT(2) = -4.130

SECTION (1) SHM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.8800	.9170	.9360
PW1															
870.000															
319.000															

870.000	.1642	1.5520													
319.000	.3616	.8876	.8183	.0882	-.0371	.0241									

X/L3 .9360

PW1

.000

.2246

.8967

.2440

.1228

.0931

-.1322

.0197

.1594

ALPHAT(3) = 0.270 BETAT(3) = -.040

SECTION (1) SHM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.8800	.9170	.9360
PW1															
870.000															
319.000															

870.000	.4304	.4237	.0067	.1177	.0204	-.0030									
319.000	.32.5	.3230	-.0348	-.0348	-.0012										

870.000	.1891	.1877	-.1166	-.1073	-.0975	-.1124	-.1271	-.0157	-.0213	.1409	.0869	.0572	.1948	.1732	.2123
319.000	.1228	.1010	-.1246	-.1482	-.0646										

X/L3 .9360

PW1

.000

.8360

.8008

.1916

.1543

.0362

-.0901

.0129

.1022



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A10B - VOL. 2

PAGE 403

ARC07-716 1A14 CR-7118-0118-0111 SEM BOOSTER

0030182

ALPHA7 (5) = 0.200 BETA7 (4) = 4.030

SECTION (1) SEM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	.1020																																																								
PH1	.000	1.3000	.3915	.4077	.0015	.0995	.0091	-.0081	.0256	-.0007	-.0211	-.0103	-.0336	-.0492	-.1341	-.2273	.45.000	.2413	.2364	-.0666	-.0667	-.0498	.90.000	.1021	.1124	-.1436	-.1401	-.1294	-.1569	-.1367	-.0596	-.0681	.1093	.0434	.0178	.1720	.1403	135.000	.0609	.0435	-.1700	-.1570	-.0765	160.000	.0917	.0911	-.1179	-.1335	-.1477	-.0576	.0271	-.0348	.0409	.1761	-.0336	-.1000	-.0205	-.0092	225.000	-.0015	.2293	-.1086	-.2235	-.1932	-.1153	.270.000	.1031	1.4300	-.2035	-.1732	-.1231	.0431	315.000	.3113	.0963	.1971	.0981	-.0107	.0409	.3409	-.1466	-.1162	-.0947	-.0873	-.1073	.0304	-.1278

X/L3 .9360

PH1

.000	.2036
45.000	.1629
90.000	.1234
135.000	.1336
180.000	-.0491
225.000	-.0239
270.000	-.0368
315.000	.0744

ALPHA7 (5) = 0.200 BETA7 (4) = 0.110

SECTION (1) SEM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	.1020																																																	
PH1	.000	1.3770	.3470	.4403	.0173	.0414	-.0096	-.0043	.0131	-.0101	-.0162	-.0238	-.0126	-.0107	.1307	.2238	.43.000	.1866	.1745	-.1199	-.1033	-.1031	.90.000	.0352	.0482	-.1765	-.1714	-.1646	-.1456	-.0964	-.1124	-.0537	.1240	.0240	.0046	.1711	.1613	135.000	.0075	.0044	-.1670	-.1694	-.1034	160.000	.0162	.0229	-.1436	-.1536	-.1665	-.0341	-.0004	-.0453	.0679	.1664	-.0680	-.1230	-.0993	.0672	225.000	-.0179	.1640	-.1322	-.2135	-.1909	-.1124	.270.000	.0866	1.3150	-.1977	-.1633	-.1066	-.0082	.3023	-.1347	-.1119	-.0937	-.0431	-.0896	.0782	.1787

X/L3 .9360

PH1

.000	.2363
45.000	.1699
90.000	.1371
135.000	.0693
180.000	.0804

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 498

ARCST-716 1A14 Q1+T12+312N5+AT11 SRM BOOSTER

(R33312)

ALPHA(5) = 0.380 SETAT (5) = 0.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

N/LB .9900

PHI

223.000 -.0809

270.000 -.0143

313.000 .2716



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083533)

SNM BOOSTER

ARC97-716 1A14 CR-THP-SHMS

ALPHAT (1) = -0.270 BETAT (4) = 4.300

SECTION (1) SNM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9500	.9170	.9380
PHI	.0000	1.3360	-.0308	.0677	-.2851	-.2543	-.2700	-.0966	-.0276	-.0318	.1937	-.0963	-.1843	.0448	.1971
45.0000	.0095	.0672	-.2982	-.2311	-.1950								-.1866	.0863	.0214
90.0000	.0721	.1132	-.2939	-.2690	-.1983	-.1946	-.2883	-.2275	-.1574	.0204	.0204	-.1191	-.1708	.0372	.1180
135.0000	.2142	.2687	-.2191	-.1828	-.0963								-.1906	.0763	.2185
180.0000	1.3360	.3443	.3035	-.1359	-.0218	.0998	.0288	-.0127	-.1540	-.1276	-.0980	-.1933	-.2030	-.0074	.1022
225.0000	.3234	.6327	-.0091	-.0686	.1787	.1404							-.1818	-.1291	-.1178
270.0000	.1420	1.0400		-.4118	-.1591	-.2111	-.0516						-.1930	-.1748	-.1570
315.0000	-.0080	.0402	-.3556	-.4092	-.4031	-.1826							-.2000	.0033	.0080

X/L3 .9380

PHI	.1182
45.0000	.0355
90.0000	.0938
135.0000	.2719
180.0000	.0945
225.0000	-.1003
270.0000	-.1488
315.0000	.0359

ALPHAT (1) = -0.280 BETAT (4) = 6.280

SECTION (1) SNM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9500	.9170	.9380
PHI	.0000	1.2910	-.0377	.0748	-.2875	-.2603	-.2476	.0165	.0091	-.0007	-.0285	.0523	-.1711	-.1988	.1104
45.0000	.0352	.0425	-.3156	-.2388	-.0882								-.1745	.0363	.1067
90.0000	.0028	.0314	-.3168	-.2912	-.1818	-.1600	-.1600	-.1540	-.2087	-.1386	.0376	-.1874	-.1768	.0994	.0749
135.0000	.1477	.2118	-.2559	-.2294	-.1453								-.2119	.0122	.0933
180.0000	1.2910	.3325	.4645	-.1370	.0342	.0983	-.0184	.0332	-.1312	-.0533	-.0232	-.2286	-.1932	-.1368	-.0918
225.0000	.4039	.6037	-.0111	-.0047	.3590	.0661							-.2103	-.1810	-.1828
270.0000	.2882	1.0010		-.3609	-.0906	-.2060	.0081						-.2175	-.2011	-.1821
315.0000	-.0213	.0557	-.3488	-.3809	-.3268	-.1382							-.2362	-.0216	.1121

X/L3 .9380

PHI	.2392
45.0000	-.0082
90.0000	.0665
135.0000	.0953
180.0000	-.0514

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OF POOR QUALITY

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 200

(089313)

SRM BOOSTER

ARC97-716 1A14 Q1+712+512N25

ALPHAT(1) = -8.280 BETAT(1) = 8.280

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9500

Phi

225.000 -1.442
 270.000 -1.023
 315.000 .0632

ALPHAT(2) = -4.240 BETAT(2) = -8.030

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000

Phi

1.5470 .1881 .8023 -.2120 -.1493 -.1769 -.2760 -.1247 -.0813 -.0639 .1297 -.0873 -.2025 -.0429 -.0538
 .0000 .8903 .3004 -.2034 -.1417 -.0890
 45.000 .3925 .3997 -.1020 -.0920 -.0399 .0067 -.0877 -.1439 -.0364 -.0893 -.0904 .1843 .2373
 90.000 .4307 .4848 -.1295 -.0618 .0019
 135.000 .3636 .3062 -.1364 -.0526 -.1133 .2842 .1551 .0616 .0282 .0200 -.1253 -.2074 -.1068 -.0884
 180.000 1.5470 .2765 .3506 -.0694 -.2300 .3067
 225.000 .2927 1.1510 -.3530 -.3540 -.1264 -.1310 .3977 -.2624 -.2316 -.1966 -.1757
 270.000 .1711 .2769 -.2237 -.3125 -.3530 -.1941
 315.000 .9170 .9380

X/L3 .9500

Phi

.0000 -.0374
 45.000 .0927
 90.000 .2129
 135.000 .0778
 180.000 .3314
 225.000 .0220
 270.000 -.1802
 315.000 -1.496

ALPHAT(2) = -4.280 BETAT(2) = -5.600

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000

Phi

1.4950 .1156 .2284 -.2251 -.1793 -.1959 -.2618 -.0937 -.0276 -.0803 .0841 .1171 -.1965 .0032 -.0180
 .0000 .1990 .2106 .2373 -.1749 -.1099
 45.000 .2791 .2766 -.2105 -.1570 -.0817 -.0498 -.0712 -.1660 -.1148 -.0636 -.0986 -.1300 .1274 .1926
 90.000 .3299 .3920 -.1813 -.1106 -.0511
 135.000 .3017 .4728 -.1467 -.0707 -.1399 .2217 .0800 -.0240 -.0438 -.0543 -.1535 -.1994 -.0283 -.0406
 180.000 1.4950 .2193 .5470 -.0694 -.2281 -.2231 .2940
 225.000 .9170 .9380



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 201

ARC37-716 1A14 Q1+712+312NE5

SNM BOOSTER

(0033333)

ALPHAT (2) = -4.222 BETAT (2) = -3.990

SECTION (1) SNM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9360
P ₀₁															
270.000		.1702	1.1340		-.3822	-.3565	-.1363	-.0243			.3502	-.2209	-.1901	-.1702	-.1543
315.000		.0623	.2435	-.2993	-.3293	-.3568	-.2244						-.2083	.0045	-.0837

X/L

.9560

P₀₁

.0000

.0495

.1011

.1600

.0898

.3592

.0087

.1329

.1232

ALPHAT (2) = -4.230 BETAT (2) = .330

SECTION (1) SNM BOOSTER DEPENDENT VARIABLE C_p

X/L	0.000	.0340	.0680	.1150	.1440	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9360
P ₀₁															
270.000		.0717	.2010	-.2321	-.2005	-.2061	-.1601	.0019	-.0409	-.0328	.1105	-.1095	-.1935	-.0019	.0136
315.000		.1327	.1495	-.2631	-.1955	-.1219	-.0482	-.1226	-.1244	-.1204	-.0166	-.0923	-.1304	.1034	.1477
359.000		.1866	.1374	-.2531	-.1905	-.1102	-.0462	-.1226	-.1244	-.1204	-.0166	-.0923	-.1304	.1034	.1477
400.000		.2435	.3064	-.1942	-.1482	-.0969	-.0462	-.1226	-.1244	-.1204	-.0166	-.0923	-.1304	.1034	.1477
440.000		.2984	.4494	-.1602	-.0905	-.1354	.1521	.0216	-.0833	-.1236	-.0651	-.1532	-.2055	-.0327	.0268
480.000		.2430	.5498	-.0682	-.2208	-.0717	.2392								
520.000		.1872	1.1270	-.0682	-.3664	-.3995	-.1513	-.0197							
560.000		.0665	.2376	-.2428	-.3374	-.3701	-.1921								

X/L

.9560

P₀₁

.0000

.0083

.1410

.1828

.2562

.3360

.0812

.1275

.0569

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 502

(R83513)

SNH BOOSTER

ARC97-716 1A14 CR-118-312N25

ALPHAT (2) = -4.220 BETAT (4) = 4.190

SECTION (1) SNH BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	0.340	0.680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800	7.140	7.480	7.820	8.160	8.500	8.840	9.180	9.520			
PHI	.000	1.3950	0.494	.176	-.2276	-.2163	-.2269	-.0461	.0071	-.0253	-.0150	.2104	-.0805	-.1996	.0990	.1276																
45.000			.0824	.1216	-.2727	-.2080	-.1311																									
90.000			.1193	.1337	-.2763	-.2216	-.1276	-.0636	-.1181	-.0867	-.1016	.1174	-.0499	-.1095	.1141	.1369																
135.000			.1766	.2702	-.2236	-.1615	-.1407																									
180.000			.2958	.4275	-.1656	-.0968	-.0586	.0748	-.0180	-.1145	-.1181	.1436	-.1395	-.1766	.0673	.2290																
225.000			.2461	.5559	-.0588	-.1991	.0431	.1671																								
270.000			.1634	1.1170	-.3546	-.3404	-.1795	-.0967																								
315.000			.0653	.2559	-.2289	-.3221	-.3645	-.1690																								

X/L 3 .9280

PHI	.000	.0995	.1091	.1925	.3012	.2131	-.0968	-.1002	.0308
45.000									
90.000									
135.000									
180.000									
225.000									
270.000									
315.000									

ALPHAT (2) = -4.220 BETAT (3) = 9.100

SECTION (1) SNH BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	0.340	0.680	1.020	1.360	1.700	2.040	2.380	2.720	3.060	3.400	3.740	4.080	4.420	4.760	5.100	5.440	5.780	6.120	6.460	6.800	7.140	7.480	7.820	8.160	8.500	8.840	9.180	9.520			
PHI	.000	1.3250	.0019	.1667	-.2518	-.2284	-.2267	.0660	.0335	.0256	-.0010	.1134	-.1206	-.1823	.0346	.1632																
45.000			.0286	.1160	-.2759	-.2125	-.1307																									
90.000			.0552	.0690	-.2963	-.2452	-.1161	-.0036	-.0033	-.0713	-.0799	.1189	-.0947	-.1263	.1048	.1132																
135.000			.1157	.1996	-.2508	-.2267	-.1535																									
180.000			.1846	.3957	-.1759	-.1033	.0177	-.0197	.0302	-.1003	-.0033	.0510	-.1980	-.2305	.0186	.0376																
225.000			.1850	.5425	-.0514	-.1772	.1042	.0795																								
270.000			.1365	1.1020	-.3234	-.3053	-.2117	.0765																								
315.000			.0471	.2996	-.2221	-.3030	-.3903	-.0993																								

X/L 3 .9280

PHI	.000	.2740	.1791	.1897	.1824	.0091
45.000						
90.000						
135.000						
180.000						



DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 203

ARCS7-716 1A14 Q1+718-312H23

(M03303)

SRM BOOSTER

ALPHA(1) = -4.830 BETAT(1) = 0.100

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0500

P01

825.000 -.1336
 270.000 -.1316
 315.000 -.0924

ALPHA(1) = -.310 BETAT(1) = -0.050

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .3120 .1440 .2010 .2670 .3730 .4600 .6030 .7100 .8330 .8600 .9170 .9300

P01

-.000 1.5610 .2403 .3472 -.1800 -.1216 -.1396 -.1632 -.0708 -.0110 -.0023 .2037 -.1080 -.2334 -.0609 -.0302
 45.000 .3473 .3803 -.1732 -.1166 -.0537 -.0334 .0164 .0362 .0201 .0020 .0823 .0302 .0020 .2900 .3236
 90.000 .3942 .3666 -.1732 -.0973 -.0385 -.0334 .0164 .0362 .0201 .0020 .0823 .0302 .0020 .2900 .3236
 135.000 .3515 .3909 -.1725 -.1097 -.0436 -.0334 .0164 .0362 .0201 .0020 .0823 .0302 .0020 .2900 .3236
 180.000 1.5610 .2935 .3992 -.1676 -.1176 -.1344 .1125 .1600 .0817 .0325 .2763 .0214 .2127 .1000 .1201
 225.000 .2144 .4317 -.1510 .3136 .3365 .1236 .1236 .1236 .1236 .1236 .1236 .1236 .1236 .1236 .1236
 270.000 .2442 1.1700 .2874 .3409 .2187 .1702 .4204 .2712 .2347 .1590 .1426 .1426 .1426 .1426 .1426
 315.000 .2114 .4138 .1352 .3023 .2944 .1264 .2018 .2712 .2347 .1590 .1426 .1426 .1426 .1426 .1426

X/L3 .0500

P01

-.000 -.0436
 45.000 .2114
 90.000 .2796
 135.000 .0864
 180.000 -.1433
 225.000 -.1020
 270.000 -.1359
 315.000 -.1879

ALPHA(1) = -.870 BETAT(1) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .3120 .1440 .2010 .2670 .3730 .4600 .6030 .7100 .8330 .8600 .9170 .9300

P01

-.000 1.5000 .2031 .3205 -.1847 .1229 .1466 .1136 .0273 .0022 .0111 .2033 .0966 .1938 .0244 .0363
 45.000 .2710 .3090 .3090 .1884 .1305 .0673 .0334 .0164 .0022 .0111 .2033 .0966 .1938 .0244 .0363
 90.000 .2969 .3090 .3090 .1884 .1305 .0673 .0334 .0164 .0022 .0111 .2033 .0966 .1938 .0244 .0363
 135.000 .2776 .3218 .3218 .1871 .1232 .0967 .0334 .0164 .0022 .0111 .2033 .0966 .1938 .0244 .0363
 180.000 1.5000 .2143 .3766 .1834 .1109 .1364 .1185 .1133 .0034 .0036 .1376 .0175 .1943 .0876 .0836
 225.000 .1846 .4294 .1362 .3101 .3266 .1232 .1232 .1232 .1232 .1232 .1232 .1232 .1232 .1232 .1232

ARC97-716 1A14 Q1+712+312M25 SHM BOOSTER 083313)

ALPHAT (3) = -.270 BETAT (2) = -4.000

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0980 .1150 .1440 .2010 .2870 .3730 .4680 .6030 .7180 .8330 .8900 .9170 .9390

PHI

870.000 .1730 1.1830 -.2815 -.3346 -.1957 -.1208
 315.000 .1532 .4087 -.1441 -.3008 -.2928 -.1132

X/L3 .9580

PHI

.000 .0366
 45.000 .2084
 90.000 .2410
 133.000 .0454
 180.000 -.1322
 223.000 -.0397
 270.000 -.1262
 315.000 -.1262

ALPHAT (3) = -.280 BETAT (3) = -.150

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0980 .1150 .1440 .2010 .2870 .3730 .4680 .6030 .7180 .8330 .8900 .9170 .9390

PHI

870.000 1.4840 .1568 .2999 -.1999 -.1454 -.1664 -.0943 .0032 -.0188 -.0191 .1796 -.1019 -.1861 .0334 .0945
 45.000 .1998 .2374 -.2212 -.1666 -.1043
 90.000 .2111 .2571 -.2433 -.1684 -.0829 -.0733 .0033 .0122 -.0301 .1334 .0181 -.0414 .2102 .2288
 133.000 .2042 .2450 -.2172 -.1638 -.0869
 180.000 1.4840 .1644 .3621 -.1966 -.1370 -.1355 .0913 .0444 -.0663 -.0537 .0598 -.0700 -.2020 -.0609 -.0659
 223.000 .1512 .4276 -.1364 -.3086 -.3328 .1060
 270.000 .1728 1.1570 -.2817 -.3404 -.2077 -.1078
 315.000 .1478 .4042 -.1454 -.3031 -.2998 -.0637

X/L3 .9580

PHI

.000 .0945
 45.000 .1979
 90.000 .1843
 133.000 .0093
 180.000 .1402
 223.000 .0832
 270.000 -.1033
 315.000 -.0903



ARC97-748 1A14 CR-712-312M25

3M BOOSTER

00031131

ALPHA7 (3) = -.200 BETAT (4) = 4.100

SECTION (1) 3M BOOSTER DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	1.0200																																
PHI	.0000	1.4100	1.374	.204	-.2133	-.1027	-.1820	-.0368	-.0030	-.0110	-.0100	.2274	-.0569	-.1436	.0760	.1254	.45000	.1767	.1748	-.2414	-.1930	-.1416	.1357	.1473	-.2760	-.2017	-.0940	-.0136	.0336	-.0033	-.0296	.2284	.0210	-.0406	.1900	.1600	.1350000	.1360	.1712	-.2390	-.1900	-.1136	.1367	.3286	-.2097	-.1533	-.1394	.0199	-.0412	-.0332	-.0664	.1436	-.0837	-.2063	-.0613	.2003	-.1761	-.0730	-.0374	-.1562	-.1049	-.0202	.0176
M/L	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	1.0200																																
PHI	.0000	1.4100	1.374	.204	-.2133	-.1027	-.1820	-.0368	-.0030	-.0110	-.0100	.2274	-.0569	-.1436	.0760	.1254	.45000	.1767	.1748	-.2414	-.1930	-.1416	.1357	.1473	-.2760	-.2017	-.0940	-.0136	.0336	-.0033	-.0296	.2284	.0210	-.0406	.1900	.1600	.1350000	.1360	.1712	-.2390	-.1900	-.1136	.1367	.3286	-.2097	-.1533	-.1394	.0199	-.0412	-.0332	-.0664	.1436	-.0837	-.2063	-.0613	.2003	-.1761	-.0730	-.0374	-.1562	-.1049	-.0202	.0176

M/L = .0360

PHI = .1364

.45000

.1767

.1748

-.2414

-.1930

-.1416

.1357

.1473

-.2760

-.2017

-.0940

-.0136

.0336

-.0033

-.0296

.2284

.0210

-.0406

.1900

.1600

.1350000

.1360

.1712

-.2390

-.1900

-.1136

.1367

.3286

-.2097

-.1533

-.1394

.0199

-.0412

-.0332

-.0664

.1436

ALPHA7 (3) = -.300 BETAT (5) = 0.800

SECTION (1) 3M BOOSTER DEPENDENT VARIABLE CP

M/L	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	1.0200																													
PHI	.0000	1.3430	.1894	.2487	-.2293	-.1866	-.1843	.0562	.0386	.0409	.0057	.0099	-.1116	-.1827	.1187	.2362	.4500	.0711	.1461	-.2748	-.2234	-.1560	.0616	.0931	-.3066	-.2230	-.0480	.0855	.0676	-.0046	-.0571	.1353	-.0543	-.1209	.1643	.1350	.0672	.1760	-.2876	-.2200	-.1363	.1112	.3131	-.2173	-.1730	-.0976	.1406	-.0256	-.0362	.0276	.1734	-.1759	-.2603	-.0020	.1299	-.1885	-.0973	-.1183	-.1343	-.0626
M/L	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520	.9860	1.0200																													
PHI	.000	1.3430	.1894	.2487	-.2293	-.1866	-.1843	.0562	.0386	.0409	.0057	.0099	-.1116	-.1827	.1187	.2362	.4500	.0711	.1461	-.2748	-.2234	-.1560	.0616	.0931	-.3066	-.2230	-.0480	.0855	.0676	-.0046	-.0571	.1353	-.0543	-.1209	.1643	.1350	.0672	.1760	-.2876	-.2200	-.1363	.1112	.3131	-.2173	-.1730	-.0976	.1406	-.0256	-.0362	.0276	.1734	-.1759	-.2603	-.0020	.1299	-.1885	-.0973	-.1183	-.1343	-.0626

M/L = .0360

PHI = .0992

.45000

.1889

.1896

.1896

.1896

.1896

.1896

.1896

.1896

.1896

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CR-712-S12NES

SRM BOOSTER

(P33313)

ALPHAT (3) = -.300 BETAT (5) = 8.200

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L3 .9500

Pa1

825.000 -.1087
870.000 -.1047
915.000 .0916

ALPHAT (4) = 3.820 BETAT (1) = -0.120

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L3 .0000

Pa1

1.5430 .3680
45.000 .4346
90.000 .3631
135.000 .2896
180.000 .1832
225.000 .1819
270.000 .8667
315.000 .8765

	.0000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4600	.6030	.7160	.8330	.9000	.9170	.9390
Pa1	1.5430	.3680	.4400	-.1328	-.0909	-.0837	-.0441	.0461	.0312	.0510	.2563	-.0899	-.1201	.0374	.1045
45.000	.4346	.4800	-.1236	-.0565	-.0014				.0764	.0834	.3201	.1797	.0830	.3131	.5575
90.000	.3631	.4127	-.1563	-.0993	-.0379	-.0236		-.0533	.0764	.0834	.3201	.1797	.0830	.3131	.5575
135.000	.2896	.3299	-.1981	-.1387	-.0582			.0741	.0850	.0755	.4432	.0642	.0008	.2326	.1836
180.000	.1832	.3126	-.2034	-.1391	-.1230	-.0834							-.1604	.7.0741	-.1032
225.000	.1819	.2809	-.2226	-.1712	-.2833	-.0533							-.3581	-.1731	-.1448
270.000	.8667	1.1490	-.2018	-.2733	-.0127	-.0411							-.1871	-.0692	-.0842
315.000	.8765	.5474	-.0813	-.2134	-.1931	.0130							-.2748	-.0678	-.0397

M/L3 .9500

Pa1

.0918
45.000 .3308
90.000 .3581
135.000 .0933
180.000 -.1975
225.000 -.1793
270.000 -.0998
315.000 -.0348

	.0000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4600	.6030	.7160	.8330	.9000	.9170	.9390
Pa1	.0918														
45.000	.3308														
90.000	.3581														
135.000	.0933														
180.000	-.1975														
225.000	-.1793														
270.000	-.0998														
315.000	-.0348														

ALPHAT (4) = 3.810 BETAT (2) = -4.100

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L3 .0000

Pa1

1.9940 .3042
45.000 .3328
90.000 .2939
135.000 .1081
180.000 .1837
225.000 .1087

	.0000	.0340	.0680	.1020	.1440	.2010	.2870	.3730	.4600	.6030	.7160	.8330	.9000	.9170	.9390
Pa1	1.9940	.3042	.4111	-.1477	-.0664	-.1175	-.0332	.0303	.0114	.0164	.1555	-.0859	-.1313	.0787	.1436
45.000	.3328	.3900	-.1491	-.1013	-.0601								.0744	.2629	.5070
90.000	.2939	.3076	-.2015	-.1481	-.0757	-.0099	-.0619		.0484	.0167	.2520	.1332	.0480	.2758	.2864
135.000	.1081	.2434	-.2281	-.1667	-.0679								-.0177	.2157	.1949
180.000	.1837	.2843	-.2164	-.1550	-.0101				.0190	.0174	.1550	.0411	-.1609	-.0970	-.1076
225.000	.1087	.1087	-.2591	-.1968	-.2903	-.0411							-.2706	-.0870	-.0953



DATE 27 JAN 75

TABULATED PRESSURE DATA - 14148 - VOL. 2

PAGE 207

00030131

SRM BOOSTER

ARCST-716 1414 CL-718-312ME5

ALPHAT (4) = 3.810 BETAT (2) = -4.100

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2870	.3750	.4680	.6030	.7180	.8330	.9400	.9170	.8380
PHI															
870.000	.1793	1.1360			-.2344	-.2876	-.0180	-.0771							
315.000	.2218	.5343	-.0658	-.2284	-.2096	.0342									
M/L3	.0560														
PHI															
.000	.1449														
45.000	.2014														
90.000	.2950														
135.000	.0604														
180.000	-.2023														
225.000	-.1231														
270.000	-.0791														
315.000	-.0607														

ALPHAT (4) = 3.860 BETAT (2) = -.170

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

M/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2870	.3750	.4680	.6030	.7180	.8330	.9400	.9170	.8380
PHI															
.000	1.4430	.2911	.4003	-.1982	-.0903	-.1292	-.0553	.0122	-.0215	-.0010	.1206	-.0018	-.1165	.1248	.1937
45.000	.2982	.3217	-.1861	-.1432	-.1001								-.0107	.2342	.2304
90.000	.1937	.2196	-.2453	-.1904	-.1076	-.0980		.0202	.0263	-.0169	.2094	.0732	.0031	.2282	.1903
135.000	.1371	.1883	-.2598	-.1941	-.0780								-.0425	.2044	.1300
180.000	1.4430	.0732	.2494	-.2330	-.1743	-.0080	.0477	-.0279	-.0109	.2801	.0025	-.1968	-.1139	-.1108	
225.000	.0976	.2424	-.2373	-.2120	-.2767	-.0437							-.2321	-.0535	-.0492
270.000	.1855	1.1250	-.2160	-.2919	.0149	-.0314							-.1813	-.1293	-.0824
315.000	.2363	.5377	-.0654	-.2183	-.2049	.0286							-.1786	.0042	-.0313
M/L3	.0560														
PHI															
.000	.1771														
45.000	.2458														
90.000	.1848														
135.000	.0314														
180.000	-.2022														
225.000	.0048														
270.000	-.0871														
315.000	-.0213														

ORIGINAL PAGE IS
POOR QUALITY

DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083313)

SRM BOOSTER

ARC97-716 1A14 CR-712-S12125

ALPHAT (4) = 3.030 BETAT (4) = 4.130

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

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X/L3 .0360

PH1

.000 .2684
 45.000 .2481
 90.000 .1447
 135.000 .0806
 180.000 .3072
 225.000 -.0032
 270.000 -.0432
 315.000 .1312

ALPHAT (4) = 3.030 BETAT (5) = 8.800

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0980	.1150	.1440	.2010	.2670	.3730	.4880	.6030	.7180	.8330	.9480	.0170	.9580
PH1	.000	1.3680	.2323	.3503	-.1777	-.1318	-.1324	.0342	.0128	.0263	.0017	-.1081	-.1088	.1918	.2889
45.000			.1142	.1928	-.2533	-.2234	-.2022					-.0901	-.0901	.1767	.2133
90.000			.0483	.0953	-.2983	-.2449	-.0133	.0947	.0692	.0108	.1777	-.0229	-.0970	.1830	.1838
135.000			.0304	.0936	-.2793	-.2095	-.0773					.2083	-.1483	.0682	.1397
180.000			.0379	.2086	-.2472	-.2085	-.1718	.1134	.0092	-.0027	.0580	-.1391	-.2336	.0173	.1983
225.000			.0783	.2782	-.2138	-.2204	-.2812	.0932				-.1644	-.0817	-.0739	-.0739
270.000			.1716	1.0970		-.2093	-.2523	.0843			.3438	-.2154	-.1697	-.1073	-.1073
315.000			.2691	.5334	-.0390	-.1811	-.1181	.0563				-.1673	-.1673	.0388	.0464

X/L3 .0360

PH1

.000 .2788
 45.000 .2083
 90.000 .1439
 135.000 .2834
 180.000 .1342



DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 808

88M BOOSTER

0033333

ARC97-716 1A14 CR-115-312NES

ALPHAT (4) = 3.330 BETAT (5) = 0.200

SECTION (1) 88M BOOSTER DEPENDENT VARIABLE CP

X/L3 .0260

PMT

225.000 -.0643

270.000 -.0756

315.000 -.1042

ALPHAT (5) = 0.120 BETAT (3) = -0.240

SECTION (1) 88M BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000

PMT

225.000 1.5000

270.000 .4500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

359.4 .3910

394.4 .2412

160.000 1.5000

225.000 .4500

270.000 .3500

315.000 .3500

ORIGINAL PAGE
OF POOR QUALITY

DEPENDENT VARIABLE CP

674
0536

III

1991. 2791

15,000
3857

1991 1990

1993-1994

2000 2000

200,000 200,000

0240 - 0000 0000

07:50:00 0000:00

0000-0000

ALUMAT (5) =	0.110	BEFAT (3) =	-.210
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SECTION (1) SAM BOOSTER

DEPENDENT VARIABLE CP

M/L3	.0000	.0340	.0960	.1190	.1440	.2010	.2870	.3730	.4600	.5030	.7160	.8330	.8900	.9170	.9390
PA1															
.0000	1.4060	.3676	.4791	-.1242	-.0303	-.0662	-.0005	.0125	-.0276	.0039	.0639	-.0562	-.0802	.2492	.3393
.45.0000	.3070	.7912	-.1797	-.1315	-.1085						.0010	.0010	.2671	.3122	.3122
.60.0000	.1566	.8793	-.2592	-.2260	-.1847		-.1645	-.0670	-.0329	-.0127	.2201	.0060	.0096	.2274	.1753
.133.0000	.0634	.1063	-.2933	-.2356	-.1132						-.0661	-.0661	.1291	.0327	.0327
.160.0000	.0096	.1424	-.2669	-.1691	-.1993		-.0164	.0066	.0201	.0473	.2492	.0050	-.1662	-.0779	-.0959
.225.0000	.0047	.0361	-.3173	-.2516	-.2606		-.0213				-.2473	-.2473	.0065	-.0374	.0065
.270.0000	.1463	1.0610	-.2479	-.2457	-.2457		-.0036	-.0097			.3405	-.1692	-.1355	-.0856	-.0460
.345.0000	.6322	-.0077	-.1035	-.0972	.0496						-.1462	-.1462	-.1148	.1102	.1102

0636
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1999

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00.000 - 051 - 1310

25,000 .1270

72,000 - .0243

13,000.0948



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0833131

SRM BOOSTER

ARC57-716 1A14' Q1-T18-S18M2

ALPHAT (S) = 0.140 BETAT (4) = 4.100

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3	0.000	.0340	.0900	.1180	.1440	.2010	.2870	.3730	.4880	.6030	.7180	.8330	.9470	.9900
PW1	1.3900	.3853	.4417	-.1393	-.0413	-.0832	-.0030	-.0300	-.0098	-.0066	.1768	-.0496	-.0269	.2407
45.000	.0000	.2218	.2854	-.2220	-.1900	-.1700	-.1667	-.0543	-.0463	-.0172	.2377	.0633	.0129	.2731
90.000	.0000	.0878	.1111	-.2995	-.2732	-.2399	-.1667	-.0543	-.0463	-.0172	.2377	.0633	.0129	.2731
135.000	.0000	.0008	.0645	-.3138	-.2446	-.1195	.0078	.0185	.0331	.0496	.2734	-.0490	-.2203	-.0803
180.000	.0000	-.0432	.1061	-.2925	-.1977	-.2160	.0078	.0185	.0331	.0496	.2734	-.0490	-.2203	-.0803
225.000	.0000	-.0357	.0291	-.3314	-.2673	-.2699	-.0360	-.0165	-.0360	-.0360	.3055	-.1869	-.1545	-.0261
270.000	.0000	.1055	.10390	-.2605	-.2411	-.1373	-.0165	-.0165	-.0165	-.0165	.3055	-.1869	-.1545	-.0261
315.000	.0000	.3240	.0246	-.0077	-.0819	-.0346	.0704						-.1641	.1310

X/L3 .9900

PW1 .3748

45.000 .3290

90.000 .1201

135.000 -.0032

180.000 .2563

225.000 .0094

270.000 .0028

315.000 .1828

ALPHAT (S) = 0.120 BETAT (S) = 0.200

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3	.0000	.0340	.0900	.1180	.1440	.2010	.2870	.3730	.4880	.6030	.7180	.8330	.9470	.9900
PW1	1.8740	.3573	.4169	-.1344	-.0676	-.0590	-.0060	-.0030	-.0110	.0277	.0336	-.1032	-.0909	.2092
45.000	.0000	.1284	.2123	-.2901	-.2519	-.2249	-.0837	-.0123	-.0875	-.0816	.1734	.0047	-.0917	.1579
90.000	.0000	.0028	.0575	-.3249	-.3000	-.1335	-.0837	-.0123	-.0875	-.0816	.1734	.0047	-.0917	.1579
135.000	.0000	-.0247	.0294	-.3283	-.2438	-.0141	.1077	.0365	.0300	.0770	.2051	-.1518	-.2287	.0069
180.000	.0000	-.0348	.0791	-.2724	-.2162	-.2213	.1077	.0365	.0300	.0770	.2051	-.1518	-.2287	.0069
225.000	.0000	-.0316	.0787	-.3180	-.2501	-.2567	.0536	.0305			.3415	-.2175	-.1940	-.0939
270.000	.0000	.1396	.10000	-.2533	-.2165	-.1016							-.1530	-.0939
315.000	.0000	.3317	.0041	-.0166	-.0437	.0469	.0844						.1027	.1468

X/L3 .9900

PW1 .3181

45.000 .1489

90.000 .0402

135.000 .2016

180.000 .1277

ORIGINAL PAGE 1
OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A548 - VOL. 2

(083313)

SIM BOOSTER

ARC97-716 1A14 Q1-T12-312NE3

ALPHAT (S) = 0.150 BETAT (S) = 0.300

DEPENDENT VARIABLE CP

SECTION (1) SIM BOOSTER

1/L3 .9500

PHI

225.000 -.0834

270.000 -.0700

315.000 .2468



PARAMETRIC DATA

WACH	=	2.200	ELEVON	=	.000
RUDDER	=	.000	SPOILER	=	.000

VIAD 23060747

UNIT =	2.4210	INCHES	UNIT =	29.9400	INCHES
UNIT =	30.7000	INCHES	UNIT =	.0000	INCHES
UNIT =	30.7000	INCHES	UNIT =	.0000	INCHES
SCALE =	.0300	SCALE			

BEAT (1) = -7.930

DEPENDENT VARIABLE OF

Reaction (1) and Reaction

[illegible]

0366

741	.000	-.1319
43,000		-.0749
90,000		.0322
99,000		.0936
80,000		.0329
225,000		-.1344
770,000		-.0900
115,000		-.1293

103-1.020

DEPENDENT VARIABLE CP

SECTION (1) 9AM BOOSTER

Rate	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367</
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6713
0550

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(M83314)

SRM BOOSTER

ARC2-716 1A14 Q1+712+812N25

ALPHA(1) = -6.360 BETAT (2) = -3.920

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3 .9500

PH1
.0000 -.0000
45.0000 -.0036
90.0000 -.0000
135.0000 -.0000
180.0000 -.0131
225.0000 -.0705
270.0000 -.1014
315.0000 -.0805

ALPHA(1) = -6.360 BETAT (3) = .120

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3 .0000 .0340 .0900 .1120 .1440 .2010 .2670 .3730 .4680 .6030 .7180 .8350 .9170 .9380

PH1
1.6120 .0713 .0766 -.1131 -.0900 -.1342 -.1726 -.1615 -.1676 -.2034 -.1426 -.1329 -.1110 -.0508 .1176
.0000 .1192 .0854 -.1486 -.1444 -.0718
45.0000 .1866 .1826 -.1104 -.1039 -.0927 -.1143 -.1298 -.1879 -.2026 -.0771 -.1762 -.1305 -.0590 -.0564
90.0000 .3194 .3146 -.0572 -.0337 .0075
135.0000 .4302 .4314 .0260 .0955 .0224 .2292 .1504 .0316 .0030 -.0097 -.1177 -.1766 -.1343 -.0365
180.0000 .3378 .8285 .1892 .0882 -.0309 .281C
225.0000 .1364 1.4610 -.2344 -.1966 .0176 -.0127
270.0000 .0457 .2324 -.0910 -.2532 -.2643 -.1734
315.0000

X/L3 .9500

PH1
.0000 .0032
45.0000 -.0678
90.0000 -.0439
135.0000 -.0785
180.0000 -.0780
225.0000 -.0644
270.0000 -.0996
315.0000 -.0283



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0833141

SRM BOOSTER

ARC97-716 1A14 Q1+718+312N83

ALPHAT(1) = -8.480 BETAT(4) = 4.130

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0980	.1130	.1440	.2010	.2670	.3730	.4880	.6030	.7180	.8330	.8900	.9170	.9390
Phi															
.000	1.5100	.0297	.0318	-.1213	-.1200	-.1360	-.1628	-.0927	-.0394	-.0191	-.0328	-.0911	-.1023	-.0864	.0883
45.000	.0846	.0401	-.1681	-.1997	-.0902								-.1363	-.0483	.0110
90.000	.1084	.1036	-.1437	-.1403	-.1296	-.1301	-.1939	-.1939	-.2136	-.1993	-.1272	-.1160	-.1462	-.0936	-.0394
135.000	.2422	.2370	-.0919	-.0708	-.0437								-.1604	-.1093	-.0846
180.000	1.5100	.3435	.4048	.0279	.0993	.0066	.1328	.0494	-.0121	-.0249	-.0839	-.1656	-.2039	-.1436	-.1040
225.000		.3163	.7836	.1748	.0653	-.0080	.2311						-.1644	-.1011	-.0832
270.000		.1113	1.4120	1.2363	-.1806	.0194	-.0651				.1787	-.1940	-.1967	-.1353	-.1242
315.000		.0113	.2336	-.0982	-.2551	-.2673	-.1806						-.2066	-.1213	-.0736

X/L = .9360

Phi

.000	-.0913
45.000	-.0467
90.000	-.0633
135.000	-.0744
180.000	-.0264
225.000	-.0747
270.000	-.1122
315.000	-.0717

ALPHAT(1) = -8.480 BETAT(5) = 6.260

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0980	.1130	.1440	.2010	.2670	.3730	.4880	.6030	.7180	.8330	.8900	.9170	.9390
Phi															
.000	1.3610	-.0160	.0336	-.1434	-.1368	-.1703	-.1105	-.0414	-.0317	-.0281	-.0337	-.0086	-.0266	-.0323	.1227
45.000	.0074	.0019	-.1821	-.1621	-.1096								-.1301	-.0845	.1152
90.000	.0337	.0321	-.1726	-.1682	-.1636	-.1300	-.1074	-.1074	-.1730	-.1576	-.0794	-.0924	-.1023	-.0820	-.0403
135.000	.1808	.1723	-.1199	-.0939	-.0912								-.1333	-.0702	-.0031
180.000	1.3610	.3373	.5163	.0117	.0209	.0216	.0935	.0206	-.0264	-.0490	-.1103	-.1682	-.1470	-.0590	-.0031
225.000		.2961	.4661	.1930	.0742	.0830	.2076						-.1323	-.1034	-.1110
270.000		.0879	1.3360	-.2363	-.1567	-.0111	-.1013				.1256	-.1630	-.1579	-.1391	-.1249
315.000		-.0139	.1364	-.1082	-.2336	-.2624	-.1822						-.1960	-.1576	-.1146

X/L = .9360

Phi

.000	.1809
45.000	.0783
90.000	-.0300
135.000	.0306
180.000	.0217

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OF POOR QUALITY

(R83514)

SHM BOOSTER

ARC97-716 1A14 CR-712-S12N5

ALPHA1 (1) = -3.480 BETAT (1) = 0.260

DEPENDENT VARIABLE CP

SECTION (1) SHM BOOSTER

N/L3 .0500

PH1

225.000 -.1117

270.000 -.1149

315.000 -.1175

ALPHA1 (2) = -4.300 BETAT (2) = -7.800

SECTION (1) SHM BOOSTER

DEPENDENT VARIABLE CP

N/L3 .0000

PH1

1.8840

.3327

.4148

.4599

.4335

.3244

.2249

.1949

N/L3 .0500

PH1

.0000

.0819

.1428

.1418

.0673

.1074

.0878

.0760

ALPHA1 (2) = -4.880 BETAT (2) = -3.820

DEPENDENT VARIABLE CP

SECTION (1) SHM BOOSTER

N/L3 .0000

PH1

1.7760

.2502

.3036

.3537

.3728

.2878

.225.000



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 267

0833141

SRM BOOSTER

ARC97-716 1A14 Q1+T12+312MS

ALPHAT (2) = -4.880 BETAT (2) = -3.880

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3	.0000	.0340	.0900	.1150	.1400	.2010	.2670	.3730	.4000	.6030	.7100	.8330	.8900	.9170	.9300
P-1															
45.000															
90.000															
135.000															
180.000															
225.000															
270.000															
315.000															

X/L3 .0300

P-1

.000	-.0515
45.000	-.0423
90.000	-.1892
135.000	-.0593
180.000	-.0032
225.000	-.0890
270.000	-.0943
315.000	-.0936

ALPHAT (2) = -4.880 BETAT (3) = .000

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L3	.0000	.0340	.0900	.1150	.1400	.2010	.2670	.3730	.4000	.6030	.7100	.8330	.8900	.9170	.9300
P-1															
.000															
45.000															
90.000															
135.000															
180.000															
225.000															
270.000															
315.000															

X/L3 .0300

P-1

.000	-.0092
45.000	-.0531
90.000	-.0022
135.000	-.0113
180.000	-.0000
225.000	-.0024
270.000	-.0563
315.000	-.0598

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FOR QUALITY

DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 518

(R03304)

SRM BOOSTER

ARCS7-716 1A14 CR+712+SLINES

ALPHAT (2) = -4.290 BETAT (4) = 4.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520
PH1	.0000	1.5510	.0917	.0478	-.1225	-.0718	-.1342	-.1410	-.0248	-.0039	-.0234	-.0032	-.0367	-.0428	-.0237	-.0445	-.0498	-.0294	-.0596	-.0793	-.0990	-.1187	-.1384	-.1581	-.1778	-.1975	-.2172	-.2369	-.2566
45.000	.0000	.1134	.0684	-.1488	-.1303	-.0809	-.0609	-.0409	-.0209	-.0009	-.0209	-.0409	-.0609	-.0809	-.1009	-.1209	-.1409	-.1609	-.1809	-.2009	-.2209	-.2409	-.2609	-.2809	-.3009	-.3209	-.3409	-.3609	-.3809
60.000	.0000	.1391	.1286	-.1356	-.1267	-.1012	-.0812	-.0612	-.0412	-.0212	-.0412	-.0612	-.0812	-.1012	-.1212	-.1412	-.1612	-.1812	-.2012	-.2212	-.2412	-.2612	-.2812	-.3012	-.3212	-.3412	-.3612	-.3812	-.4012
135.000	.0000	.1973	.1854	-.1136	-.0945	-.0427	-.0227	-.0027	-.0227	-.0427	-.0627	-.0827	-.1027	-.1227	-.1427	-.1627	-.1827	-.2027	-.2227	-.2427	-.2627	-.2827	-.3027	-.3227	-.3427	-.3627	-.3827	-.4027	-.4227
180.000	.0000	1.5510	.2657	.2768	-.0579	.0321	-.0477	.1228	.0684	-.0482	-.0270	-.0068	-.0266	-.0464	-.0662	-.0860	-.1058	-.1256	-.1454	-.1652	-.1850	-.2048	-.2246	-.2444	-.2642	-.2840	-.3038	-.3236	-.3434
225.000	.0000	.2311	.6819	.1517	.0002	-.0986	.1711	.0374	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601
270.000	.0000	.1229	1.4940	.3718	.0023	-.1879	-.2236	-.0768	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601
315.000	.0000	.0872	.3718	.0023	-.1879	-.2236	-.0768	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601	-.3800

X/L3 .9580

PH1

.0000
45.000
60.000
135.000
180.000
225.000
270.000
315.000

ALPHAT (2) = -4.290 BETAT (3) = 0.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3	.0000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520
PH1	.0000	1.4360	.0472	.0770	-.1323	-.0980	-.1512	-.1184	.0007	-.0232	-.0339	-.0032	.0107	-.0847	.0099	.1394	.0166	.0889	.1997	.0080	.0353	.1292	.0096	.0092	.0213	.0348	.0794	.0995	.1033
45.000	.0000	.0498	.0493	.0679	-.1638	-.1437	-.0919	-.0622	-.0745	-.0800	-.1352	.0037	.0327	-.0792	.0080	.0353	.1292	.0096	.0092	.0213	.0348	.0794	.0995	.1033	.1292	.0096	.0092	.0213	.0348
60.000	.0000	.1228	.1302	.1302	-.1389	-.1260	-.0916	-.0571	-.0113	-.0714	-.0791	-.0950	-.1422	.1569	.0461	.0213	.1273	.0348	.0794	.0995	.1033	.1292	.0096	.0092	.0213	.0348	.0794	.0995	.1033
135.000	.0000	1.4360	.2328	.2503	-.0294	.0048	-.0571	.0378	-.0113	-.0714	-.0791	-.0950	-.1422	.1569	.0461	.0213	.1273	.0348	.0794	.0995	.1033	.1292	.0096	.0092	.0213	.0348	.0794	.0995	.1033
180.000	.0000	.2197	.6023	.1850	.0091	-.0571	.1410	.0378	-.0113	-.0714	-.0791	-.0950	-.1422	.1569	.0461	.0213	.1273	.0348	.0794	.0995	.1033	.1292	.0096	.0092	.0213	.0348	.0794	.0995	.1033
225.000	.0000	.1044	1.4490	.3586	.0077	-.1767	-.2136	-.0779	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601
270.000	.0000	.0872	.3718	.0023	-.1879	-.2236	-.0768	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601	-.3800
315.000	.0000	.0580	.3718	.0023	-.1879	-.2236	-.0768	-.0439	-.0239	-.0037	-.0235	-.0433	-.0631	-.0829	-.1027	-.1225	-.1423	-.1621	-.1819	-.2017	-.2215	-.2413	-.2611	-.2809	-.3007	-.3205	-.3403	-.3601	-.3800

X/L3 .9580

PH1

.0000
45.000
60.000
135.000
180.000
225.000
270.000
315.000



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03514)

SRM BOOSTER

ARC07-716 1A14 CR+T18+812MB5

ALPHAT (2) = -4.280 BETAT (3) = 8.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

Z/LB .0500

PHI

225.000 -.1040

270.000 -.0780

315.000 -.1000

ALPHAT (3) = -.310 BETAT (1) = -7.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

Z/LB .0000 .0340 .0900 .1150 .1440 .2010 .2870 .3730 .4690 .6030 .7160 .8330 .9000 .9170 .9390

PHI

.0000 1.0000

.0000 .0340

.0000 .0900

.0000 .1150

.0000 .1440

.0000 .2010

.0000 .2870

.0000 .3730

.0000 .4690

.0000 .6030

.0000 .7160

.0000 .8330

.0000 .9000

.0000 .9170

.0000 .9390

.0000 .9500

.0000 .9600

.0000 .9700

.0000 .9800

.0000 .9900

.0000 .9950

.0000 .9990

.0000 .9995

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ORIGINAL PAGE IS
OF POOR QUALITY

(003514)

SEM BOOSTER

A7:37-716 1A14 Q1+T12+512M25

ALPHA(1,3) = -.300 BETAT(2) = -3.990

SECTION (1) SEM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0900	.1150	.1440	.2010	.2870	.3730	.4800	.6030	.7180	.8330	.9500	.9170	.9360
PH1															
270.000	.1856	1.8750			7.2508	-.2103	.0067	-.0707							
315.000	.2002	.9507	.1000	-.1091	-.1848	-.0324									
X/L	.9500														
PH1															
.000	.0346														
45.000	.2079														
90.000	.2536														
135.000	.1537														
180.000	.0617														
225.000	-.0731														
270.000	-.0845														
315.000	-.0709														

ALPHA(1,3) = -.300 BETAT(3) = .070

SECTION (1) SEM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0900	.1150	.1440	.2010	.2870	.3730	.4800	.6030	.7180	.8330	.9500	.9170	.9360
PH1															
.000	1.8500	.2057	.1825	-.0822	-.0071	-.0830	-.1051	-.0041	.0103	.0164	.0039	-.0226	-.0693	.0304	.0481
45.000	.2112	.1976	-.1083	-.0815	-.0471									.1154	.1690
90.000	.2136	.2112	-.1014	-.0912	-.0322	-.0065	-.0270	.0014	.0019	.0079	.0131	-.0028	.1908	.1908	.2290
135.000	.2176	.2112	-.1067	-.0813	-.0339									.0664	.1434
180.000	1.8500	.2126	.1971	-.0912	.0023	-.0908	.1169	.0190	-.0294	.0499	-.0418	-.1179	-.0919	.0049	.0049
225.000	.1770	.2167	.1059	-.0864	.1772	.0701								.3876	-.0287
270.000	.1450	1.9620	.1059	-.2302	-.2133	.0036	-.0591							-.1131	-.0935
315.000	.1602	.4348	.1179	-.1075	-.1806	-.0463								-.1779	-.0829
X/L	.9500														
PH1															
.000	.0491														
45.000	.1610														
90.000	.2123														
135.000	.1079														
180.000	-.0024														
225.000	-.0341														
270.000	-.0793														
315.000	-.0133														



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1-712-S12M25 SHM BOOSTER 083314)

ALPHA(3) = -.300 BETA(4) = 4.140

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1400	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
P41	.000	1.9610	.1860	.1764	-.1023	-.0196	-.1093	-.1059	-.0055	-.0152	.0086	-.0317	-.0712	-.0474	.1802
45.000		.1549	.1535	-.1304	-.1028	-.0864							-.0119	.1318	.1703
90.000		.1525	.1435	-.1283	-.1191	-.0900	-.0311	-.0103	.0076	-.0024	-.0093	.0107	-.0184	.1144	.1531
135.000		.1501	.1532	-.1304	-.1020	-.0473							-.0861	.0816	.0930
180.000		1.8610	.1735	.1750	-.0945	-.0148	-.1037	.0302	.0668	-.0463	-.0312	-.0938	-.1362	-.0843	-.0178
225.000		.1537	.3282	.1144	-.0882	-.1732	.1195						-.1261	-.0544	-.0598
270.000		.1236	1.9850		-.8494	-.8028	.0251	-.0371			.1980	-.1671	-.1307	-.1130	-.1016
315.000		.1468	.3290	.1084	-.0989	-.1831	-.0280						-.1753	-.0788	-.0358

X/L 0.960

P41	.000	-.0861	.45.000	.1570	90.000	.1427	135.000	.0921	180.000	-.0334	225.000	-.0793	270.000	-.0849	315.000	-.0046
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ALPHA(3) = -.280 BETA(3) = 8.180

SECTION (1) SHM BOOSTER DEPENDENT VARIABLE CP

X/L	0.000	.0340	.0680	.1020	.1400	.2010	.2670	.3730	.4680	.6030	.7180	.8330	.9000	.9170	.9380
P41	.000	1.4590	.1898	.1873	-.1063	-.0341	-.1211	-.1067	-.0173	-.0385	-.0814	-.0087	-.0840	.0443	.1312
45.000		.0871	.0905	-.1321	-.1303	-.0891							.0005	.1916	.1899
90.000		.0788	.0790	-.1311	-.1431	-.0886	-.0385	-.0018	.0054	-.0223	.0431	.0293	.0231	.1321	.2282
135.000		.0824	.0824	-.1328	-.1307	-.0813							.0363	.0219	.0260
180.000		1.4590	.1370	.1957	-.1041	-.0273	-.1036	.0449	-.0067	-.0732	-.0450	-.0811	-.1457	-.1040	-.0003
225.000		.1413	.4856	.1163	-.0702	-.1345	.1477						-.1326	-.0530	-.0378
270.000		.1115	1.5070		-.8470	-.1815	.0377	-.0600			.1629	-.1559	-.1329	-.1105	-.0784
315.000		.1285	.3567	.0916	-.0854	-.1732	.0073						-.1834	-.0661	.0277

X/L 0.960

P41	.000	.1343	45.000	.1609	90.000	.0936	135.000	-.0068	180.000	.1018
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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(003314)

SAM BOOSTER

ALPHAT(3) = -.250 BETAT(3) = 9.190

SECTION (1) SAM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0360

PHI

225.000 -.0005
270.000 -.0443
315.000 .1413

ALPHAT(4) = 3.960 BETAT(4) = -0.020

SECTION (1) SAM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0960 .1120 .1440 .2010 .2670 .3730 .4680 .6030 .7180 .8330 .8900 .9170 .9380

PHI

.000 1.0760 .4315 .3707 -.0036 .1266 .0362 -.0241 .0298 .0513 .0325 .1430 -.0039 -.0483 .0636 .1487
45.000 .4560 .4363 .4031 -.0133 .0017 .0208 .0596 .0210 .0101 .0679 .0612 .1421 .1176 .3336 .3531
90.000 .4144 .4031 -.0133 .0017 .0177 .0434 .0210 .0101 .0679 .0612 .1421 .1176 .3336 .3531
135.000 .3393 .3998 -.0646 -.0365 .0242 .0434 .0210 .0101 .0679 .0612 .1421 .1176 .3336 .3531
180.000 1.0760 .2591 .2341 -.0363 .0315 -.0166 -.0455 .0439 .0603 .0723 .2410 .1108 .0107 .1037 .1883
225.000 .2007 .4724 .0317 1.1562 -.1240 .0267 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610
270.000 .2272 1.5610 .0317 1.1562 -.1240 .0267 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610
315.000 .3221 .7670 .1614 -.0012 -.0669 .0246 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610 .0610

X/L3 .0360

PHI

.000 .1443
45.000 .3464
90.000 .3973
135.000 .2878
180.000 .1103
225.000 -.1024
270.000 -.0144
315.000 .0034

ALPHAT(4) = 3.960 BETAT(4) = -4.000

SECTION (1) SAM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0960 .1120 .1440 .2010 .2670 .3730 .4680 .6030 .7180 .8330 .8900 .9170 .9380

PHI

.000 1.7580 .3603 .3128 -.0368 .1062 -.0015 -.0470 .0041 .0443 .0323 .0443 .0323 .0324 .0723 .1480
45.000 .3491 .4340 -.0478 -.0237 .0239 .0239 .0239 .0239 .0239 .0239 .0239 .0239 .0239 .0239 .0239
90.000 .2993 .3002 -.0630 -.0326 -.0335 -.0036 -.0215 .0464 .0464 .0464 .0464 .0464 .0464 .0464 .0464
135.000 .2477 .2191 -.1010 -.0935 -.0107 .0361 .0361 .0361 .0361 .0361 .0361 .0361 .0361 .0361 .0361
180.000 1.7580 .1680 .1833 -.0635 1.0192 -.0634 -.0796 .0361 .0361 .0361 .0361 .0361 .0361 .0361 .0361
225.000 .1447 .4098 .0179 -.1766 .1526 .0013 .0013 .0013 .0013 .0013 .0013 .0013 .0013 .0013 .0013



YANUARY PRESSURE DATA - 1A14B - VOL. 2

(R03914)

ARM BOOSTER

ARC97-716 1A14 C1+Y12+S12N23

..STAT (4) = 1.940 BETAT (4) = 4.000

DEPENDENT VARIABLE CP

SECTION (1) SUR EGGERS																
N/L3	.0000	.0340	.0900	.1130	.1440	.2010	.2670	.3730	.4660	.6030	.7160	.8330	.9500	.9170	.9390	
PA1																
.0000	1.5360	.2666	.2877	-.0640	.0642	-.0475	-.0619	.0004	-.0153	-.0206	.0079	-.0106	-.0700	.0642	.1775	
45.0000		.1972	.1976	-.1089	-.0574	-.0536							.0171	.1480	.1720	
60.0000		.1361	.1448	-.1305	.1225	-.0949	-.0567	-.0326	.0169	-.0100	.0743	.0433	.0163	.1840	.2010	
135.0073		.1119	.1032	-.1439	.1225	-.0649							-.0133	.0039	.2073	
160.0000	1.5360	.0911	.0907	-.1206	-.0792	-.1321	-.0307	.0736	-.0276	.0204	.0661	-.0484	-.1077	-.0714	.0019	
225.0000		.0776	.4264	.0103	-.1692	-.2154	.0599						.1436	-.0774	-.0506	
270.0000		.2236	1.3260		-.2577	-.2210	.0476	.1160			.2402	-.1443	-.1256	-.0967	-.0718	
			.6414	.2120	.0039	-.0979	-.0411						-.1332	.0030	.1653	

8/28 .9300

PM1	
.0000	.1826
45.0000	.1801
90.0000	.1322
35.0000	.1712
60.0000	-.0472
25.0000	-.0688
70.0000	-.0433
15.0000	-.1184

$$\dots \text{DATA: A1} = 4.000 \quad \text{BETAY (5) } = 0.100$$

DEPENDENT VARIABLE CP

SECTION (3)	W/L	0.0000	0.0340	0.0680	0.1020	0.1360	0.1700	0.2040	0.2380	0.2720	0.3060	0.3400	0.3740	0.4080	0.4420	0.4760	0.5100	0.5440	0.5780	0.6120	0.6460	0.6800	0.7140	0.7480	0.7820	0.8160	0.8500	0.8840	0.9180	0.9520	0.9860	1.0200	1.0540	1.0880	1.1220	1.1560	1.1900	1.2240	1.2580	1.2920	1.3260	1.3600	1.3940	1.4280	1.4620	1.4960	1.5300	1.5640	1.5980	1.6320	1.6660	1.7000	1.7340	1.7680	1.8020	1.8360	1.8700	1.9040	1.9380	1.9720	2.0060	2.0400	2.0740	2.1080	2.1420	2.1760	2.2100	2.2440	2.2780	2.3120	2.3460	2.3800	2.4140	2.4480	2.4820	2.5160	2.5500	2.5840	2.6180	2.6520	2.6860	2.7200	2.7540	2.7880	2.8220	2.8560	2.8900	2.9240	2.9580	2.9920	3.0260	3.0600	3.0940	3.1280	3.1620	3.1960	3.2300	3.2640	3.2980	3.3320	3.3660	3.4000	3.4340	3.4680	3.5020	3.5360	3.5700	3.6040	3.6380	3.6720	3.7060	3.7400	3.7740	3.8080	3.8420	3.8760	3.9100	3.9440	3.9780	4.0120	4.0460	4.0800	4.1140	4.1480	4.1820	4.2160	4.2500	4.2840	4.3180	4.3520	4.3860	4.4200	4.4540	4.4880	4.5220	4.5560	4.5900	4.6240	4.6580	4.6920	4.7260	4.7600	4.7940	4.8280	4.8620	4.8960	4.9300	4.9640	4.9980	5.0320	5.0660	5.1000	5.1340	5.1680	5.2020	5.2360	5.2700	5.3040	5.3380	5.3720	5.4060	5.4400	5.4740	5.5080	5.5420	5.5760	5.6100	5.6440	5.6780	5.7120	5.7460	5.7800	5.8140	5.8480	5.8820	5.9160	5.9500	5.9840	6.0180	6.0520	6.0860	6.1200	6.1540	6.1880	6.2220	6.2560	6.2900	6.3240	6.3580	6.3920	6.4260	6.4600	6.4940	6.5280	6.5620	6.5960	6.6300	6.6640	6.6980	6.7320	6.7660	6.8000	6.8340	6.8680	6.9020	6.9360	6.9700	7.0040	7.0380	7.0720	7.1060	7.1400	7.1740	7.2080	7.2420	7.2760	7.3100	7.3440	7.3780	7.4120	7.4460	7.4800	7.5140	7.5480	7.5820	7.6160	7.6500	7.6840	7.7180	7.7520	7.7860	7.8200	7.8540	7.8880	7.9220	7.9560	7.9900	8.0240	8.0580	8.0920	8.1260	8.1600	8.1940	8.2280	8.2620	8.2960	8.3300	8.3640	8.3980	8.4320	8.4660	8.5000	8.5340	8.5680	8.6020	8.6360	8.6700	8.7040	8.7380	8.7720	8.8060	8.8400	8.8740	8.9080	8.9420	8.9760	9.0100	9.0440	9.0780	9.1120	9.1460	9.1800	9.2140	9.2480	9.2820	9.3160	9.3500	9.3840	9.4180	9.4520	9.4860	9.5200	9.5540	9.5880	9.6220	9.6560	9.6900	9.7240	9.7580	9.7920	9.8260	9.8600	9.8940	9.9280	9.9620	9.9960	10.0300	10.0640	10.0980	10.1320	10.1660	10.2000	10.2340	10.2680	10.3020	10.3360	10.3700	10.4040	10.4380	10.4720	10.5060	10.5400	10.5740	10.6080	10.6420	10.6760	10.7100	10.7440	10.7780	10.8120	10.8460	10.8800	10.9140	10.9480	10.9820	11.0160	11.0500	11.0840	11.1180	11.1520	11.1860	11.2200	11.2540	11.2880	11.3220	11.3560	11.
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0630
012

P41	.000	.2353
45.000		.1752
90.000		.1094
135.000		.0862
180.000		-.0078

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

10332141

SRM BOOSTER

ARC37-716 1A14 CR+T12+312MS

ALPHAT (1) = 4.000 BETAT (1) = 0.100

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .9500

PM1

225.000 .0777
270.000 -.0006
315.000 .1302

ALPHAT (2) = 0.200 BETAT (2) = -0.140

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1440 .2010 .2670 .3730 .4600 .6030 .7100 .8330 .8900 .9170 .9300

PM1

.000 1.8520 .5450 .5150 .0735 .1560 .0952 .0299 .0667 .0711 .0612 .0776 .0563 .0027 .1514 .2997
45.000 .5231 .5148 .0353 .0822 .1174
90.000 .3972 .3634 -.0247 -.0103 .0043 -.0089 -.0348 -.0349 .0332 .2164 .1512 .1233 .3544 .3982
135.000 .2818 .2298 -.0986 -.0957 -.0253
180.000 1.8520 .1942 .2129 -.0686 -.0146 -.0530 -.0345 .0003 .0048 .0116 .2039 .0776 .0400 .1742 .0624
225.000 .1437 .3419 -.0606 -.2155 -.1631 -.0469
270.000 .2183 1.5420 -.1903 -.1482 -.1116 .0147
315.000 .3979 .9142 .2212 .0678 -.0506 .0477
4026 -.1115 -.0776 .0132 .0303 .1083

X/L3 .9500

PM1

.000 .2331
45.000 .4108
90.000 .3937
135.000 .1671
180.000 .0173
225.000 -.1064
270.000 .0219
315.000 .1093

ALPHAT (3) = 0.200 BETAT (3) = -4.050

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L3 .0000 .0340 .0900 .1150 .1440 .2010 .2670 .3730 .4600 .6030 .7100 .8330 .8900 .9170 .9300

PM1

.000 1.7820 .4758 .4573 .0336 .1411 .0496 .0144 .0429 .0555 .0549 .0487 .0248 -.0220 .1183 .2575
45.000 .4072 .4063 -.0126 .0083 .0378
90.000 .2799 .2901 -.0712 -.0591 -.0518 -.0678 -.0623 -.0336 .0193 .1662 .1000 .0730 .2355 .2596
135.000 .1928 .1825 -.1258 -.1217 -.0443
180.000 1.7820 .1256 .1372 -.0928 -.0574 -.0924 -.0372 .0072 .0028 -.0073 .1558 .0810 .0328 .1767 .1333
225.000 .0847 .2927 -.0799 -.2256 -.1898 -.0606
4026 -.1085 -.0320 -.0244

NO DATA FROM 1A
NO DATA QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC37-716 1A14 Q1+712+312N25 90M BOOSTER (R53334)

ALPHAT (5) = 0.220 BETAT (2) = -4.020

SECTION (1) 90M BOOSTER DEPENDENT VARIABLE CP

N/L5	0.000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520
PHI																													
270.000																													
319.000																													

N/L5 .0560

PHI

0.000	.2322
45.000	.3146
90.000	.2496
135.000	.1873
180.000	.0411
225.000	-.0673
270.000	-.0196
319.000	.1273

ALPHAT (5) = 0.270 BETAT (3) = .030

SECTION (1) 90M BOOSTER DEPENDENT VARIABLE CP

N/L5	0.000	.0340	.0680	.1020	.1360	.1700	.2040	.2380	.2720	.3060	.3400	.3740	.4080	.4420	.4760	.5100	.5440	.5780	.6120	.6460	.6800	.7140	.7480	.7820	.8160	.8500	.8840	.9180	.9520
PHI																													
270.000																													
319.000																													

N/L5 .0560

PHI

0.000	.2713
45.000	.2437
90.000	.1790
135.000	.1502
180.000	.0743
225.000	1.0371
270.000	1.0086
319.000	.1401



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 028

(088814)

SRM BOOSTER

ARC97-716 1A14 01-716-312N25

ALPHA (S) = 0.310 BETA (S) = 0.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/L3 .0500

P01

225.000 .0144

270.000 .0011

315.000 .3806



ARC97-716 1A14 01-718-SIEMES-AT11 EXTERNAL TANK (083711) (18 JAN 74)

REFERENCE DATA

REF = 2.4210 36-FT. 2MRP = 28.9600 INCHES
 LREF = 36.7090 INCHES 1MRP = .0000 INCHES
 REF = 36.7090 INCHES 2MRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT(1) = -0.280 BETAT(1) = -0.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4310	.5050	.5560	.6380
PHI	.0000	1.3110	.7863	.4264	.0458	-.1951	-.2375	-.2766	-.2374	-.1990	-.0366	.0008	-.1102	-.1495	-.1208
30.000		.3302	.1251	-.1445	-.1999	-.2451	-.2289	-.1912	-.1401	-.3356	-.2826	-.1218	-.1352	-.1352	-.0975
60.000		.6858	.2533	-.0416	-.0968	-.1641	-.1342	.1439	-.2013	-.4213	-.3325	-.2020	-.1958	-.0009	.0009
90.000		1.2470	.8492	.3677	-.0626	-.0009	-.0713	-.0130	.6809	-.4164	-.0452	-.0843	-.1518	-.0827	.0000
120.000			.9405	.4695	.1234	.0632	-.0176	.0062	.3963	.2771	-.0754	.3573	.2764	.1969	.0840
135.000							.0045	.0045	.3029	.3029	.1639	.1639	.2145	.2145	.0000
150.000			.9503	.4865	.1270	.0576	-.0162	.0013	.0485	.3166	.3281	.1636	.1228	.1075	.0922
165.000				.4257	.0921	.0244	-.0495	-.0310	.0021	.3640	.9255	.3410	-.0249	.0169	.1072
180.000		1.3110	1.2980	.8345	.3758	.0524	-.0078	-.0733	-.0622	.4624	.5007	.2777	.0186	.1182	.0139
270.000			.7836						.3676						

X/LT .7480 .8530 .9280

PHI

.0000 .0351 .0036 .0055
 30.000 -.0171 -.0136 .0228
 60.000 -.0194 -.0348 .0537
 90.000 -.1124 -.0936
 120.000 .0422 .0900 .4309
 135.000 .0445 .1530 .3180
 150.000 .0137 .1704 .2914
 165.000 .0091 .1645 .3948
 180.000 -.0416 .1154 .3598

ALPHAT(1) = -0.280 BETAT(1) = -0.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4310	.5050	.5560	.6380
PHI	.0000	1.3480	.8311	.4500	.0805	-.1795	-.2213	-.2604	-.2223	-.1836	.0486	.0966	-.0809	-.1800	-.1363
30.000		.5129	.1068	-.1539	-.2009	-.2324	-.2284	-.1907	-.1401	-.3356	-.2826	-.1218	-.1352	-.1352	-.0975
60.000		.6162	.1866	-.0910	-.1439	-.2020	-.1736	.1103	-.2198	-.4161	-.3344	-.2362	-.1551	-.0023	.0023
90.000		1.1480	.7482	.2970	-.0110	-.0719	-.1370	.0836	.6421	-.4019	-.0228	-.1175	-.0673	-.0354	.0000
120.000			.8569	.3639	.0610	-.0051	-.0759	-.0420	.2769	.3068	-.0485	.3370	.2045	.1213	.0415
135.000							.0439	.0439	.2932	.2932	.1639	.1639	.2145	.2145	.0000
150.000			.9028	.4300	.0895	.0276	-.0359	-.0372	.0229	.3715	.3507	.0976	.0536	.0567	.0280

PHI

.0000 .0351 .0036 .0055
 30.000 -.0171 -.0136 .0228
 60.000 -.0194 -.0348 .0537
 90.000 -.1124 -.0936
 120.000 .0422 .0900 .4309
 135.000 .0445 .1530 .3180
 150.000 .0137 .1704 .2914
 165.000 .0091 .1645 .3948
 180.000 -.0416 .1154 .3598

DATE 27 JAN 78

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 530

ARC97-716 1A14 01-712+312M25+AT11 EXTERNAL TANK (083711)

ALPHAT(1) = -0.2800 BETAT(2) = -4.330

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0490 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4310 .5050 .5560 .6360

Pw1

105.0000 1.3490 1.2910 .8656 .4224 .0666 .0185 -.0339 -.0417 -.0004 .4198 .3029 .2046 .0329 -.0063 .0703
180.0000 .8876
270.0000

X/LT .7480 .8530 .9280

Pw2

.0000 -.0092 .0004 .0309
30.0000 -.0334 -.0373 .0364
60.0000 -.0334 -.0395 .0929
90.0000 -.0380 -.0498
120.0000 -.0182 -.0151 .3036
135.0000 -.0169 .0886 .2290
150.0000 -.0573 .1048 .1937
165.0000 -.0324 .1084 .2942
180.0000 -.0900 .0690 .2680

ALPHAT(1) = -0.2800 BETAT(2) = -.100

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0490 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4310 .5050 .5560 .6360

Pw1

.0000 1.3780 .8587 .4577 .0656 -.1803 -.2216 -.2541 -.2121 -.1720 .0982 -.0650 -.1812 -.1804 -.0349
30.0000 .4803 .0778 -.1741 -.2121 -.2590 -.2092 -.1732 .0225 -.1399 -.1680 .1215 -.1115 -.0742
60.0000 .5364 .1194 -.1338 -.1829 -.2304 -.1977 .0834 -.1949 1.4052 -.3167 -.2070 -.0421 -.0733
90.0000 1.0330 .6309 .1939 -.0802 -.1345 -.1883 -.1424 .6016 1.3797 -.0183 -.1580 -.0376 -.1063
120.0000 .7403 .2697 -.0220 -.0740 -.1347 -.0900 .1769 .3590 .0354 .3667 .1292 .0003 -.0081
135.0000 .8244 .3964 .0296 -.0357 -.0985 -.0749 -.0034 .2613 .0956 .0956 .1177
150.0000 .3894 .3894 .0350 -.0074 -.0762 -.0602 -.0030 .3986 .3017 .0269 -.0199 .0302 -.0755
165.0000 .8715 .5946 .0644 -.0025 -.0563 -.0544 .5283 .4101 .4758 .2150 .0685 .0360 .0195
180.0000 1.3780 1.2910 .8715 .3946 .0644 -.0025 -.0563 -.0544 .5283 .4101 .4758 .2150 .0685 .0360 .0195
270.0000 1.0180

X/LT .7480 .8530 .9280

Pw2

.0000 .0176 -.0016 .0217
30.0000 -.0189 -.0087 .0320
60.0000 -.0301 .0016 .1519
90.0000 -.0700 -.0183
120.0000 -.0939 -.0382 .1842
135.0000 1.0001 .0385 .1231
150.0000 1.1377 .0491 .0937

ARC97-716 1A14 Q1+T12+SI2M25+AT115 EXTERNAL TANK

(R037111)

ALPHAT(1) = -0.200 BETAT(3) = -.100

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7400 .8330 .9260

Pw1

100.000 -.1124 .0502 .2430
180.000 -.0779 .0762 .2595

ALPHAT(1) = -0.200 BETAT(4) = 3.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0490 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5030 .5500 .6060

Pw1

.000 1.3510 .0347 .4566 .0680 -.1767 -.2160 -.2328 -.2113 -.1929 .0645 -.0767 -.1766 -.1502 -.0457
30.000 .4437 -.0998 -.1815 -.2219 -.2395 -.2122 -.1805 -.0180 -.0336 -.1296 -.1476 -.1444 -.0309
60.000 .4866 .0725 -.1719 -.2132 -.2325 -.2093 .0064 -.1555 -.3964 -.2199 -.1663 -.0402 -.0266
90.000 .9274 .0131 .1229 -.1410 -.1878 -.2267 -.1894 .5672 -.3372 -.0505 -.2054 -.0357 -.1180
120.000 .6297 .0055 .0055 -.0798 -.1338 -.1894 -.1765 .1641 .4197 .0875 .2558 .0568 .0249 -.0351
150.000 .7362 .2885 -.0171 -.0753 -.1424 -.1247 -.1495 .1415 .1415 .1130 .0356
180.000 .3526 .0340 -.0304 -.1012 -.0864 -.0536 .3278 .3634 .1317 .0365 .0676 -.0277
210.000 1.3510 1.8740 .0553 .3035 .0616 -.0060 -.0764 -.0558 .0079 .3032 .4504 .0623 -.0274
270.000 1.1110 .5950

X/LT .7400 .8330 .9260

Pw1

.000 .0110 -.0109 .0124
30.000 .0060 -.0064 .0637
60.000 -.0122 -.0064 .1721
90.000 -.0344 -.0167
120.000 -.1067 -.0035 .0687
150.000 -.1076 .0029 .0431
180.000 -.1419 -.0034 -.0316
210.000 -.1068 .0366 .1071
270.000 -.1002 .0554 .0681

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC03-716 1A14 Q1312+SIEN05+AT11 EXTERNAL TANK (0803711)

ALPHAT(1) = -0.350 BETAT(1) = 7.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

R/LT	.0000	.0080	.0400	.1130	.1700	.1840	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6390
PHI															
.000	1.3160	.7893	.4389	.0556	-.1757	-.2160	-.2643	-.2466	-.1963	.0309	-.0037	-.1125	-.1637	-.1263	-.0389
30.000			.3693	.0320	-.1970	-.2347	-.2569	-.2355	-.0660	-.0127	-.0179	-.1328	-.1327	-.1228	.0133
60.000			.3902	.0881	-.1979	-.2337	-.2500	-.2301	.0118	-.0886	-.3536	-.0897	-.1403	-.0039	-.0060
90.000		.8118	.4334	.0556	-.1908	-.2202	-.2676	-.2137	.4026		-.2167	-.1278	-.2322	.0399	-.0167
120.000			.5298	.1297	-.1337	-.1805	-.2330	-.2220	.1200	.3840	.1813	.1404	-.0047	-.0044	-.0776
150.000						-.1935		-.1935		.0725		.0944		-.0080	
180.000			.6307	.2251	-.0825	-.1160	-.1841	-.1697	.1549	.3069	.2246	-.1568	-.0903	-.0457	-.1547
210.000				.3099	.0110	-.0519	-.1254	-.1167	-.0769	.2704	.3185	-.0259	.0175	.0540	-.0596
240.000	1.3160	1.1030	.8264	.3686	.0581	-.0051	-.0830	-.0347	.0554	.2352	.4163	.2331	.0526	-.0175	-.0470
270.000		1.2130						-.0000							

R/LT .7480 .9530 .9280

PHI

.000	.0420	.0127	.0143
30.000	.0172	-.0093	.0404
60.000	.0169	.0001	.1879
90.000	-.0357	-.0234	
120.000	-.0722	-.0147	.1096
150.000	-.0783	.0133	.0530
180.000	-.0931	-.0034	-.0434
210.000	-.0570	.0301	.1133
240.000	-.1089	.0396	.0804

ALPHAT(2) = -4.240 BETAT(2) = -7.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

R/LT	.0000	.0080	.0400	.1130	.1700	.1840	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6390
PHI															
.000	1.3570	.8043	.4826	.1159	-.1426	-.1899	-.2447	-.2211	-.1637	.0506	.0211	-.0872	-.1413	-.1254	-.0349
30.000			.6379	.2047	-.0707	-.1319	-.1916	-.1779	-.1441	-.0217	-.2498	-.2327	-.0732	-.0632	-.1027
60.000			.7825	.3210	.0040	-.0560	-.1234	-.0906	.2563	-.0502	-.3285	-.2482	-.1783	-.0671	-.0167
90.000		1.8220	.8027	.3956	.0893	.0001	-.0654	-.0094	.6916		-.3697	-.2495	-.1088	-.1630	-.0732
120.000			.8888	.4168	.0808	.0193	-.0326	-.0313	.4060	.1854	-.2181	.0717	.2403	.1823	.0844
150.000						-.0459		-.0459		.2119		.1139		.1733	
180.000			.8933	.3627	.0600	-.0038	-.0790	-.0571	-.0240	.2031	.1993	.0665	.0506	.0394	.0809
210.000				.3263	.0150	-.0430	-.1118	-.0967	-.0822	.2418	.4764	.3077	-.0732	-.0047	.0935
240.000	1.3570	1.1770	.7319	.2814	-.0210	-.0731	-.1328	-.1821	-.0722	.3902	.4475	.2363	-.0399	-.0047	.0137
270.000		.9248							.4553						

R/LT .7480 .9530 .9280

PHI



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-210 1A14 CR-718-SIENS-AT111 EXTERNAL TANK (080711)

ALPHAT (2) = -0.840 BETAT (1) = -7.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

M/LT	7.680	-0.530	.0200
PHI	.0000	.0222	.0134
30.000	-.0112	-.0046	.0051
60.000	.0137	.0202	.1908
90.000	-.0148	.0001	.4362
120.000	.0374	.0896	.3702
150.000	.0442	.1648	.3031
180.000	.0168	.1917	.4045
210.000	.0136	.1911	.3716
240.000	-.0136	.1464	.3716

ALPHAT (2) = -4.820 BETAT (2) = -4.130

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

M/LT	.0000	.0000	.0400	.1130	.1780	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.5030	.5260	.6300
PHI	.0000	1.4020	.9435	.5914	.1341	-.1800	-.1732	-.2248	-.1976	.0261	.0879	-.0543	-.1354	-.1444	-.0649
30.000				.0110	.1836	-.0921	-.1448	-.2013	-.1802	.0402	-.1778	-.1593	-.0896	-.0346	-.0726
60.000				.0912	.2484	-.0401	-.1002	-.1696	-.1370	-.0506	-.3258	-.2743	-.1144	-.1364	.0128
90.000			1.1700	.7643	.3123	-.0003	-.0593	-.1302	-.0793	.6631	-.3737	-.2228	-.1179	-.1128	-.0176
120.000				.0000	.3313	.0875	-.0326	-.1026	-.0787	.2104	-.1091	.0930	.1733	.0794	.0433
150.000				.0148	.3513	.0310	-.0304	-.1048	-.0690	.2771	.2544	.0232	-.0491	-.0005	.0233
180.000				.3312	.3312	.0136	-.0465	-.1144	-.1002	.3322	.4829	.2564	-.0378	-.0343	.0591
210.000	1.4020	1.1930	.7823	.3041	-.0013	-.0591	-.1251	-.1057	-.0663	.3357	.4678	.2423	-.0337	.0309	-.0089
240.000		.5336						.4807							

M/LT 7.680 -0.530 .0200

PHI	.0000	.0098	.0013	.0434
30.000	-.0343	-.0263	.0596	.1232
60.000	-.0034	-.0036	.1232	
90.000	.0893	.0820		.3180
120.000	-.0228	-.0149		.2682
150.000	-.0804	.0539		.2231
180.000	-.0483	.1878		.3097
210.000	-.0487	.1892		.2873
240.000	-.0820	.1331		

ARCS7-716 1A14 CL+T18+812M2+AT11 EXTERNAL TANK 00837111

ALPHAT(8) = -4.220 BETAT (3) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/L	0.000	.0000	.0490	.1130	.1760	.1940	.2130	.2400	.2600	.2440	.3040	.4910	.5050	.5960	.6360
PHI															
20.000	1.4242	.8036	.9436	.1409	-.1236	-.1066	-.2220	-.1768	-.1801	.0081	.1388	-.0317	-.1281	-.1857	-.0431
40.000			.5778	.1484	-.1178	-.1638	-.2177	-.1741	-.1442	.0373	-.0741	-.1048	-.1828	-.0835	-.0887
60.000			.6062	.1792	-.1016	-.1502	-.1936	-.1947	.0279	-.0271	-.2950	-.3017	-.0516	-.0387	-.0737
80.000			.6011	.2161	-.0781	-.1231	-.1748	-.1283	.6437		-.3666	-.1618	-.1314	-.0997	-.0223
100.000		1.0770		.7126	-.0361	-.0960	-.1577	-.1030	.0765	.2400	-.1122	.0341	.1140	.0210	.0180
120.000								-.1102		.2593		.0481		.0536	
135.000				.7548	-.2906	-.0194	-.0735	-.1443	-.0549	.2649	.2706	-.0214	-.1183	-.0459	-.0338
150.000				.3030	-.0070	-.0648	-.1287	-.1132	-.0802	.3530	.3631	.1700	-.0224	-.0218	-.0112
165.000				.7737	.3081	-.0080	-.0563	-.1231	-.0995	.2820	.4366	.2094	.0047	-.1135	-.0099
180.000	1.4240	1.2000													
270.000		1.0530													

X/L

.7480 .8530 .9020

PHI

20.000	.0247	.0146	.0305
40.000	-.0155	-.0033	.0340
60.000	-.0155	.0216	.1666
80.000	-.0361	.0322	
100.000	-.0918	-.0182	.1837
120.000	-.0770	.0567	.1370
135.000	-.1196	.0722	.1014
150.000	-.0488	.0622	.2427
165.000	-.0875	.0927	.2902

ALPHAT(8) = -4.220 BETAT (4) = 3.680

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/L	0.000	.0000	.0490	.1130	.1760	.1940	.2130	.2400	.2600	.2440	.3040	.4910	.5050	.5960	.6360
PHI															
20.000	1.4030	.8443	.9479	.1380	-.1241	-.1061	-.2216	-.1894	-.1918	-.0072	.1123	-.0433	-.1310	-.1713	-.0893
40.000			.5187	.1209	-.1375	-.1839	-.2183	-.1847	-.1834	.0484	.0272	-.0870	-.1749	-.1138	-.0438
60.000			.5211	.1190	-.1373	-.1813	-.2121	-.1881	-.0508	.0110	-.2663	-.2690	-.0402	-.0317	-.0648
80.000			.5231	.1387	-.1815	-.1801	-.2134	-.1756	.6199		-.3791	-.1370	-.1778	-.0886	-.0337
100.000		.9318		.6043	-.0947	-.1436	-.2016	-.1633	.1030	.3027	-.0430	.0740	.0482	-.0407	-.0205
120.000								-.1742		.1158		.0192		-.0189	
135.000				.8893	-.2270	-.0593	-.1139	-.1814	-.0092	.2666	.2474	-.1023	-.1236	-.0793	-.1407
150.000				.2879	-.0238	-.0839	-.1347	-.1409	-.0986	.2808	.3328	.0981	-.0078	-.0218	-.0131
165.000				.2841	-.0761	-.0862	-.1336	-.1172	-.0303	.2836	.3851	.1823	.0694	-.0344	-.0377
180.000	1.4030	1.1780													
270.000		1.1820													

X/L

.7480 .8530 .9020

PHI

20.000	.0247	.0146	.0305
40.000	-.0155	-.0033	.0340
60.000	-.0155	.0216	.1666
80.000	-.0361	.0322	
100.000	-.0918	-.0182	.1837
120.000	-.0770	.0567	.1370
135.000	-.1196	.0722	.1014
150.000	-.0488	.0622	.2427
165.000	-.0875	.0927	.2902



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2

00037111

ARC97-716 1A14 CR-712-SIDING-A711 EXTERNAL TANK

ALPHA1 (2) = -4.220 BETAT (4) = 3.820

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/L Y .7400 .8530 .8200

PHI
.0000 .0001 .0014 .0193
30.0000 -.0029 .0037 .0746
60.0000 -.0443 -.0052 .1634
90.0000 -.0769 .0137 .0925
120.0000 -.1028 .0316 .0925
150.0000 -.0910 .0332 .0720
180.0000 -.1112 .0255 .0031
195.0000 -.0711 .0597 .1170
180.0000 -.0970 .0739 .0794

ALPHA1 (2) = -4.220 BETAT (5) = 7.870

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/L Y .0000 .0060 .0400 .1130 .1780 .1940 .2150 .2400 .2600 .3440 .3940 .4310 .5030 .5360 .6360
PHI
.0000 1.3760 .8244 .5332 .1891 -.1332 -.1804 -.2367 -.2156 -.1791 .0230 .0397 -.0632 -.1321 -.1244
30.0000 .4705 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720 .0720
60.0000 .4302 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000
90.0000 .6698 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717 .0717
120.0000 .5202 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181 .1181
135.0000 .5972 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756 .1756
150.0000 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298 .2298
165.0000 .7333 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743 .2743
180.0000 1.3760 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030 1.1030
270.0000 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700 1.2700

X/L Y .7400 .8530 .8200
PHI
.0000 .0371 .0230 .0274
30.0000 .0361 .0104 .0563
60.0000 .0142 .0021 .1438
90.0000 -.0004 .0034 .0034
120.0000 -.0408 .0084 .1809
135.0000 -.0477 .0337 .0920
150.0000 -.0948 .0397 .0092
165.0000 -.0292 .0430 .1246
180.0000 -.0829 .0460 .0670

ARC97-748 1A148 Q8+718+818M5+AT11 EXTERNAL TANK

00037111)

ALPHA(1) = -.0001 BETAT(1) = -7.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

Z/L	.0000	.0000	.0400	.1130	.1700	.1940	.2150	.2400	.2600	.3400	.3940	.4510	.5050	.5500	.6300
PHI															
.000	1.3020	1.0210	.6273	.1942	-.0082	-.1301	-.1907	-.1843	-.1314	.1002	-.0802	-.0553	-.1013	-.0950	-.0302
30.000			.7415	.2901	-.0146	-.0756	-.1401	-.1274	-.0860	.0633	-.1508	-.1422	-.0432	-.0439	-.0814
60.000			.8357	.3664	.0468	-.0140	-.0900	-.0638	.3793	.0556	-.2217	-.1991	-.0542	-.0705	-.0187
90.000		1.8970	.8722	.3903	.0722	.0057	-.0661	-.0108	.6947	.0915	-.2985	-.2871	-.1811	-.1427	-.0433
120.000			.8321	.3674	.0463	-.0180	-.0970	-.0635	.3792	.0915	-.1967	-.1195	-.1238	.1929	.1024
150.000			.7801	.3047	-.0027	-.0569	-.1307	-.1138	-.0632	.1095	.0805	.0505	-.0389	.0122	.0074
180.000			.6353	.2446	-.0489	-.1033	-.1661	-.1543	-.1142	.1316	.3024	.2767	-.0425	-.0332	.0090
210.000			.5053	.2034	-.0799	-.1325	-.1627	-.1666	-.1088	.2982	.4120	.2167	-.0803	-.1516	.0212
270.000			.8203						.5681						

Z/L .7480 .8530 .9000

PHI

.000	.0341	.0117	.0254
30.000	-.0100	.0277	.0774
60.000	.0286	.0864	.1773
90.000	-.0283	.0191	
120.000	.0593	.1083	.3033
150.000	.0779	.2189	.4481
180.000	.0374	.2599	.3756
210.000	.0394	.2566	.4171
270.000	.0224	.2456	.3966

ALPHA(1) = -.0200 BETAT(2) = -4.1820

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

Z/L	.0000	.0000	.0400	.1130	.1700	.1940	.2150	.2400	.2600	.3400	.3940	.4510	.5050	.5500	.6300
PHI															
.000	1.4130	1.0400	.6414	.2067	-.0810	-.1346	-.1932	-.1708	-.1161	.0616	.1189	-.0244	-.0932	-.1048	-.0819
30.000			.6942	.2502	-.0485	-.1038	-.1674	-.1450	-.1016	.1016	-.1073	-.0969	-.0807	-.0314	-.0873
60.000			.7484	.2947	-.0201	-.0783	-.1377	-.1156	.1128	.0716	-.2273	-.1699	-.0402	-.0414	-.0828
90.000		1.1040	.7870	.3140	-.0087	-.0689	-.1277	-.0937	.8512	.0953	-.3142	-.3055	-.1776	-.1768	-.0182
120.000			.7484	.3020	-.0184	-.0738	-.1314	-.1135	.0848	.0983	-.1727	-.1123	-.1008	.0948	.3148
150.000			.7185	.2725	-.0361	-.0911	-.1513	-.1347	-.0823	.1872	.1598	.0095	-.0176	.0828	.0815
180.000			.6372	.2372	-.0566	-.1122	-.1678	-.1532	-.1073	.2897	.4366	.2460	-.1225	-.1245	.0292
210.000			.6801	.2131	-.0733	-.1252	-.1784	-.1478	-.1118	.2747	.6092	.1679	-.0843	-.1838	-.0018
270.000			.8480						.8968						

Z/L .7480 .8530 .9000

PHI

.000	.0341	.0117	.0254
30.000	-.0100	.0277	.0774
60.000	.0286	.0864	.1773
90.000	-.0283	.0191	
120.000	.0593	.1083	.3033
150.000	.0779	.2189	.4481
180.000	.0374	.2599	.3756
210.000	.0394	.2566	.4171
270.000	.0224	.2456	.3966



DATE 27 JAN 78 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CR+TIE+SIENES+AT11 EXTERNAL TANK (R03711)

ALPHAT (3) = -.800 BETAT (2) = -4.180

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7480	.9530	.9280
PHI			
.000	-.0181	-.0078	.0580
30.000	-.0354	-.0208	.0513
60.000	-.0032	.0237	.1449
90.000	-.0436	.0297	
120.000	-.0065	.0630	.3909
135.000	-.0046	.1395	.3633
150.000	-.0129	.1996	.2927
165.000	-.0226	.2066	.3569
180.000	-.0159	.1645	.3300

ALPHAT (3) = -.800 BETAT (3) = -.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2150	.2420	.2500	.3440	.3940	.4510	.5050	.5560	.6380
PHI															
.000	1.4440	1.0740	.9580	.8134	-.0737	-.1596	-.1691	-.1682	-.1804	.0011	.1804	.0084	-.0536	-.1315	-.0594
30.000			.8006	.8127	-.0740	-.1268	-.1635	-.1426	-.1377	.0271	-.0062	-.0416	-.1085	-.0499	-.0556
60.000			.6653	.8144	-.0747	-.1252	-.1631	-.1317	-.0260	.0984	-.1988	-.2214	-.0068	.0064	-.0557
90.000		1.0960	.6666	.8167	-.0723	-.1299	-.1601	-.1271	.6436	-.3067	-.2826	-.1624	-.1826	-.1826	-.0237
120.000			.6703	.8214	-.0727	-.1259	-.1627	-.1320	-.0224	.1307	-.0964	-.0839	.0460	.0417	-.0231
135.000			.6756	.8227	-.0727	-.1242	-.1786	-.1367	-.1295	.2510	.2047	.0216	-.1647	-.1075	.0035
150.000			.6756	.8222	-.0707	-.1219	-.1776	-.1368	-.1176	.3097	.3483	.1442	-.0436	-.0547	.0801
165.000	1.4440	1.1810	.6756	.8195	-.0668	-.1176	-.1751	-.1605	-.0905	.2160	.4106	.1805	-.0109	-.8002	.0076
180.000		1.0740							.6405						

X/LT	.7480	.9530	.9280
PHI			
.000	.0055	.0099	.0466
30.000	-.0018	.0092	.0749
60.000	-.0463	.0136	.1429
90.000	-.0920	.0222	
120.000	-.0490	.0829	.8673
135.000	-.0514	.1353	.2876
150.000	-.0898	.1488	.1493
165.000	-.0361	.1808	.2500
180.000	-.0536	.1566	.2657

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OF POOR QUALITY

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19C97-716 1A14 Q1-T12-S12NE3-A111 EXTERNAL TANK

ALPHAT(3) = -.290 BETAT (4) = 3.000

SECTION 11 EXTERNAL TANK.

DEPENDENT VARIABLE CP

M/LT	.0000	.0000	.0400	.1100	.1700	.1940	.2100	.2400	.2900	.3440	.3940	.4910	.5030	.5500	.6300
P41															
.000	1.4230	1.0300	.0495	.2175	-.0502	-.1108	-.1697	-.1642	-.1085	.0064	.1337	-.0048	-.0942	-.1258	-.0532
30.000			.6037	.2740	-.0630	-.1336	-.1945	-.1602	-.1143	.0561	.0264	-.0906	-.1965	-.0975	-.0588
60.000			.3620	1.302	-.1056	-.1505	-.1671	-.1599	.0272	.1357	-.1611	-.1981	-.0149	-.0166	-.0523
90.000	.6734		.3737	1.439	-.1131	-.1564	-.1761	-.1622	.6351		-.3084	-.2567	-.1631	-.0257	
120.000			.2607	1.595	-.1075	-.1545	-.1951	-.1659	.0812	.1813	-.0462	-.1012	.0400	-.0560	-.0254
150.000							-.1699			.1170		.0170		-.0664	
180.000			.0090	.1761	-.0920	-.1422	-.2077	-.1752	-.0938	.2336	.2293	-.1026	-.1994	1.1874	-.0876
210.000				.2037	-.0794	-.1244	-.1934	-.1775	-.1222	.2506	.2969	.1040	-.0376	-.1237	-.0019
240.000	1.4230	1.0300	.6006	.2242	-.0619	-.1146	-.1626	-.1612	-.0652	.2133	.3562	.1356	.0323	-.1409	-.0504
270.000								.6670							

17/11 0530 . 9200 . 0020

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...	-.0000	-.0148	-.0047	0.0424
30,000	-.0043	-.0043	.0160	.0020
60,000	-.0014	-.0014	-.0250	.1779
90,000	-.0368	-.0314	-.0314	
120,000	-.0237	-.1019	.1963	
135,000	-.0111	-.1033	.1396	
150,000	-.0306	-.0966	.0697	
165,000	-.0226	.1266	.1662	
180,000	-.0456	.1496	.1816	

ALPHAT (3) = -.300 BETAT (5) = 7.050

SECTION 11 EXTERNAL TANK

DEPENDENT VARIABLE C₁

X/L7	.0000	.0060	.0420	.1120	.1760	.1940	.2120	.2480	.2900	.3440	.3940	.4910	.5050	.5960	.6360
P41															
.0000	1.3760	1.0190	.6293	.1969	-.0666	-.1222	-.1693	-.1672	-1.408	.0502	.0611	-.0562	-.0963	-1.006	-.0766
30.0000			.5416	.1277	-.1261	-.1670	-.2232	-.1844	-1.000	.1003	-.0086	-.0627	-1.1539	-.0966	-.0264
60.0000			.4683	.0690	-.1644	-.2569	-.1844	-.1857	-.0310	.1624	-.1092	-.1599	-.0082	-.0138	-.0261
90.0000		.8998	.4096	.0804	-.1697	-.2112	-.1918	-.1903	.5745		-.3074	-.1960	-1.675	-.1315	.0061
120.0000			.4937	.0913	-.1597	-.2039	-.2457	-.2066	.0953	.2122	.0356	.1095	-.0011	-.0996	-.0106
150.0000								-.2210		.0160		-.0347		-.1015	
180.0000			.5313	.1254	-.1349	-.1620	-.2348	-.2134	.0900	.2375	.1554	-.2026	-.2136	-1.431	-.0703
195.0000				.1644	-.1035	-.1547	-.2101	-.1866	-.0982	.1866	.2597	-.0764	-.0300	-.0798	-.0434
200.0000	1.3760	.9965	.6326	.1956	-.0773	-.1316	-.1697	-.1659	-.0033	.1299	.3234	.1036	-.0227	-.0560	-.1720
210.0000									.6990						

10/17	.7400	.9280
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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1+712+552N2+AT11 EXTERNAL TANK (083711)

ALPHAT (3) = -.300 BETAT (3) = 7.850

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7400 .8530 .9280

PHI			
.000	.0264	.0172	.0404
30.000	.0367	.0225	.0822
60.000	.0288	.0199	.1705
90.000	.0103	.0020	
120.000	.0066	.0564	.2422
135.000	-.0031	.0568	.1347
150.000	-.0276	.0913	.0911
165.000	.0142	.1128	.1548
180.000	-.0422	.1227	.0905

ALPHAT (4) = 3.830 BETAT (4) = -7.840

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0080 .0490 .1130 .1768 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5580 .6360

PHI														
.000	1.3680	1.1230	.7302	.2822	-.0246	-.0825	-.1485	-.1330	-.0964	.0930	.0933	-.0277	-.0913	-.0930
30.000			.8439	.3748	.0498	-.0146	-.0879	-.0707	-.0456	.1325	-.0740	-.0916	-.0217	.0118
60.000			.6935	.4191	.0947	.0184	-.0571	-.0264	.4049	.1722	-.1864	-.1335	.0185	.0391
90.000		1.2770		.3953	.0628	-.0032	-.0723	-.0133	.6876		-.2702	-.1634	-.0281	-.0709
120.000			.7583	.3096	-.0032	-.0639	-.1257	-.0967	.2595	-.0560	-.2569	-.3848	.0065	.1127
135.000							-.1445			-.0234		-.1934		.0407
150.000			.6321	.2161	-.0709	-.1235	-.1841	-.1666	-.1239	-.0197	.0704	-.0171	-.1276	-.0610
165.000				.491	-.1192	-.1699	-.2177	-.2009	-.1521	.1016	.2164	.2111	-.0470	-.0617
180.000	1.3880	.9665	.5311	.1101	-.1442	-.1902	-.2283	-.1904	-.1584	.1751	.3501	.1685	-.0866	-.1792
270.000		.3260							.5207					.0440

X/LT .7400 .8530 .9280

PHI			
.000	.0133	.0134	.0496
30.000	.0020	.0479	.0754
60.000	.0146	.0803	.0949
90.000	-.1294	-.1182	
120.000	.1143	.2558	.6931
135.000	.1394	.3385	.5359
150.000	.1076	.3627	.9274
165.000	.1056	.3394	.4147
180.000	.1039	.3206	.3763

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ARC97-716 1A14 Q1-T12-S1P-05+AT11 EXTERNAL TANK (R83711)

ALPHAT (4) = 3.920 BETAT (2) = -4.140

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0490	.1130	.1700	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PMI	1.4020	1.1950	.7493	.2962	-.0142	-.0729	-.1415	-.1241	-.0746	.0501	.1481	.0216	-.0553	-.0662	-.0260
30.000			.7960	.3392	.0176	-.0432	-.1162	-.0960	-.0532	.1107	-.0106	-.0360	-.0336	.0176	-.0141
60.000			.8021	.3435	.0176	-.0432	-.1086	-.0796	.0929	.1876	-.1967	-.1506	.0469	.0310	-.0016
90.000		1.1790	.7393	.3044	-.0069	-.0662	-.1293	-.0815	.6962		-.2644	-.1655	-.0282	-.0616	-.1063
120.000			.6642	.2470	.0545	-.1109	-.1643	-.1399	.2159	-.0354	-.2457	-.3200	.0026	.0469	.0479
135.000								-.1679		.0236		-.1354		-.0320	
150.000			.6237	.1946	-.0909	-.1442	-.1986	-.1791	-.1327	.0494	.1124	-.0096	-.1236	-.1449	.0456
165.000				.1535	-.1155	-.1659	-.2164	-.1904	-.1427	.1723	.3336	.2090	-.1049	-.2073	.0106
180.000	1.4020	.9766	.9540	.1331	-.1312	-.1769	-.2227	-.1601	-.1543	.2015	.3926	.1627	-.0647	-.2212	-.0224
270.000		.9402							.5654						

X/LT .7460 .9530 .9890

PMI

.000	-.0211	-.0109	.0530
30.000	-.0106	.0040	.0696
60.000	-.0019	.0411	.0648
90.000	-.1195	-.1119	
120.000	.0427	.1370	.5030
135.000	.0674	.2517	.4255
150.000	.0447	.2841	.3563
165.000	.0563	.2998	.3605
180.000	.0530	.2646	.3484

ALPHAT (4) = 3.930 BETAT (3) = -.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0490	.1130	.1700	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PMI	1.4300	1.1830	.7603	.3030	-.0106	-.0668	-.1368	-.1224	-.0874	.0966	.1793	.0513	-.0472	-.0817	-.0175
30.000			.7493	.2691	-.0807	-.0601	-.1469	-.1251	-.0650	.1226	.0636	-.0024	-.0469	-.0210	-.0172
60.000			.7115	.2523	-.0484	-.1012	-.1647	-.1142	.0870	.2165	-.1704	-.1510	.0367	.0423	-.0166
90.000		1.0810	.6598	.2115	-.0766	-.1359	-.1862	-.1350	.6422		-.2751	-.1653	.0294	-.0013	-.0306
120.000			.6091	.1744	-.1082	-.1579	-.2068	-.1631	-.0161	-.0141	-.1968	-.2651	-.1065	.0202	.0017
135.000								-.1720		.0979		-.0256		-.0634	
150.000			.5676	.1482	-.1222	-.1716	-.2172	-.1753	-.1534	.1870	.1866	-.0402	-.2030	-.1675	.0067
165.000				.1356	-.1275	-.1763	-.2216	-.1642	-.1648	.2441	.3562	.1723	-.0190	-.1009	.0057
180.000	1.4300	.9808	.5677	.1323	-.1879	-.1763	-.2216	-.1926	-.0570	.1757	.3797	.1136	-.0323	-.2204	.0077
270.000		.9010							.6367						

X/LT .7460 .9530 .9890

PMI



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 01-712-SIGNS-AT11 EXTERNAL TANK (0003711)

ALPHA(1) = 3.030 BETA(1) = -.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7400 .8530 .0280

PHI
 .000 -.0046 .0007 .0416
 30.000 -.0072 .0220 .0808
 60.000 -.0142 .0502 .1004
 90.000 -.0222 -.0222 .3242
 120.000 .0017 .1299 .3242
 135.000 .0262 .1927 .2767
 150.000 -.0036 .2103 .2053
 165.000 .0193 .2209 .2425
 180.000 .0472 .2153 .2439

ALPHA(1) = 3.040 BETA(1) = 3.040

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0060 .0480 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4310 .5030 .6390

PHI
 .000 1.4020 1.1990 .7502 .2924 -.0059 -.0694 -.1353 -.1134 -.0823 .0293 .1664 .0329 -.0513 -.0774 -.0891
 30.000 .6809 .2373 .1763 .1323 .1093 .1046 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826
 60.000 .6102 .1763 .1323 .1093 .1046 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 90.000 .5928 .1323 .1093 .1046 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 120.000 .5165 .1093 .1046 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 135.000 .5143 .1046 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 150.000 .5143 .1088 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 165.000 .5406 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 180.000 1.4020 .9316 .5406 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826
 270.000 1.1940 .1940 .5406 .1202 .1364 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826 .1826

X/LT .7400 .8530 .0280

PHI
 .000 -.0301 .0017 .0601
 30.000 -.0221 .0174 .0695
 60.000 .0009 .0351 .1346
 90.000 .0025 .0466 .1643
 120.000 .0429 .1626 .1643
 135.000 .0455 .1676 .1656
 150.000 .0356 .1630 .1641
 165.000 .0461 .1667 .1666
 180.000 .0354 .1670 .1166

ARC97-716 1A14 01-712-312N25-AT11 EXTERNAL TANK (R837A11)

ALPHAT(4) = 3.840 BETAT(5) = 7.880

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0050	.0490	.1130	.1780	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI															
.000	1.3620	1.1320	.7934	.2882	-.0806	-.0801	-.1378	-.1166	-.0926	.0242	.0932	-.0110	-.0483	-.0662	-.0590
30.000			.6127	.1884	-.0911	-.1458	-.2005	-.1824	-.1326	.1823	.0799	-.0263	-.1032	-.0752	.0182
60.000			.5136	.1093	-.1515	-.1972	-.2000	-.1947	.0676	.2536	-.0801	-.0769	-.0120	-.0154	-.0292
90.000		.8494	.4558	.0691	-.1755	-.2172	-.1933	-.1957	.5090	-.2609	-.1324	.1011	.0142	.0142	.0621
120.000			.4355	.0598	-.1805	-.2222	-.2063	-.2129	.0227	.0429	-.0945	-.1617	.0282	-.0197	-.0508
150.000			.4204	.0677	-.1715	-.2125	-.2616	-.2282	.0649	.1846	.1326	-.1767	-.2402	-.1484	.0230
180.000			.0922	-.1602	-.2015	-.2907	-.2358	.0242	.0549	.1543	.2416	-.0845	-.0297	-.0846	.0052
210.000	1.3630	.8734	.5183	.1122	-.1418	-.1888	-.2401	-.2262	-.0191	.1012	.2569	.0046	-.0566	-.0829	-.0297
270.000	1.2590								.6951						

H/LT .7480 .8930 .9280

PHI

.000	.0235	.0212	.0578
30.000	.0408	.0328	.0688
60.000	.0338	.0275	.1028
90.000	.0371	.0766	
120.000	.0374	.1196	.2105
150.000	.0664	.1821	.1638
180.000	.0425	.1498	.0805
210.000	.0693	.1831	.0115
240.000	.0388	.8045	.1345

ALPHAT(5) = 6.130 BETAT(1) = -7.880

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0050	.0490	.1130	.1780	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI															
.000	1.3180	1.2170	.9327	.3759	.0508	-.0128	-.0849	-.0728	-.0479	.1047	.0938	.0459	.0041	-.0072	.0022
30.000			.8435	.4858	.1245	.0545	-.0262	-.0112	.0295	.2358	.0186	-.0464	.0273	.0356	.0487
60.000			.9435	.4641	.1845	.0572	-.0271	.0123	.4020	.2618	-.1451	-.0540	.0204	.0675	.0802
90.000		1.2330	.8344	.3782	.0535	-.0118	-.0800	-.0204	.8706	-.2492	-.1500	-.0437	.0013	.0609	.0609
120.000			.8695	.2412	-.0558	-.1092	-.1688	-.1320	.1438	-.2035	-.2566	-.2268	-.1015	.0235	.0891
150.000								-.1754		-.1291		-.2736		.0856	
180.000			.9441	.1320	-.1322	-.1778	-.1943	-.1784	-.0460	-.0822	.0003	-.1002	-.1271	-.0332	.1024
210.000			.0665	-.1735	-.2122	-.1787	-.1834	-.0749	.0749	.0655	.1675	-.0776	-.0329	.0885	.0885
240.000	1.3180	.8436	.4223	.0365	-.1905	-.2015	-.1837	-.1827	-.0809	.0545	.2022	.0273	-.1504	-.1108	.0779
270.000	.7808								.5130						

H/LT .7480 .8930 .9280

PHI

.000	.0235	.0212	.0578
30.000	.0408	.0328	.0688
60.000	.0338	.0275	.1028
90.000	.0371	.0766	
120.000	.0374	.1196	.2105
150.000	.0664	.1821	.1638
180.000	.0425	.1498	.0805
210.000	.0693	.1831	.0115
240.000	.0388	.8045	.1345



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R05711)

ANC87-716 1A14 Q1+T12+812H3+AT11 EXTERNAL TANK

ALPHA* (5) = 0.120 BETAT (1) = -7.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

N/L/T 7.680 .8530 .8280

PHI			
.000	.0493	.0165	.0918
30.000	.0883	.0821	.1354
60.000	.0706	.1937	.1921
90.000	.1110	.2261	
120.000	.1114	.2097	.5493
135.000	.1516	.3167	.5429
150.000	.1281	.3420	.5339
165.000	.1341	.3530	.4233
180.000	.1437	.3047	.3907

ALPHA* (5) = 0.120 BETAT (2) = -4.220

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

N/L/T .0000 .0080 .0490 .1130 .1780 .1940 .8130 .2420 .2800 .3440 .4510 .5050 .5580 .6380

PHI													
.000	1.3810	1.8210	.8591	.3924	.0508	-.0044	-.0800	-.0649	.0421	.1923	.0806	.0041	-.0078
30.000			.8946	.4263	.0864	.0174	-.0809	.0419	.2143	.0437	.0075	.0311	.0404
60.000			.8496	.3674	.0522	-.0737	-.0810	-.0419	.2822	-.1478	-.0610	.0427	.0879
90.000		1.1320	.7592	.2954	-.0216	-.0770	-.1413	-.0909	.6374	-.2577	-.1096	.0068	.0363
120.000			.6096	.1681	-.1014	-.1513	-.2030	-.1758	.1050	-.2074	-.2391	-.0646	.0065
135.000								-.2050	-.1135	-.2763	-.0256	-.1088	.0486
150.000			.2243	.1197	-.1493	-.1945	-.2405	-.2149	-.0579	.0574	-.1062	-.1637	.0239
165.000				.0737	-.1716	-.2143	-.2557	-.2166	.1523	.2592	.2085	-.1095	.0239
180.000	1.3810	.8571	.4489	.0579	-.1821	-.2217	-.2481	-.2159	.1716	.3288	.0822	-.0932	-.2001
270.000		.8999											.0289

N/L/T 7.680 .8530 .8280

PHI													
.000	.0072	-.0046	.0427										
30.000	.0302	.0351	.0960										
60.000	.0356	.0924	.1183										
90.000	.0393	.1190											
120.000	.0373	.1909	.4478										
135.000	.0750	.2842	.4378										
150.000	.0670	.3112	.3888										
165.000	.0677	.3199	.3768										
180.000	.0750	.2799	.3532										

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TABULATED PRESSURE DATA - 1A14B - VOL. 2

DATE 27 JAN 75

0837111

ARC97-716 1A14 Q1+T12+S12N25+AT11 EXTERNAL TANK

ALPHAT (3) = 6.120 BETAT (3) = -.170

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0080	.0490	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6380
PHI															
.000	1.3670	1.2820	.8677	.3942	.0672	.0044	-.0700	-.0629	-.6365	.0952	.2274	.1041	.0112	-.0153	.0136
30.000			.8363	.3663	.0443	-.0202	-.0913	-.0768	-.0196	.2032	.0988	.0391	.0099	.0059	.0096
60.000			.7447	.2885	-.0188	-.0700	-.1462	-.0946	.1718	.3264	-.1115	-.0362	.0288	.0617	.0059
90.000		1.0360	.6324	.1970	-.0849	-.1431	-.1893	-.1475	.5976		-.2601	-.2150	.0069	-.0138	-.0114
120.000			.5376	.1241	-.1368	-.1872	-.2345	-.1925	.0921	-.1853	-.2611	-.2593	-.0405	-.0031	.0499
150.000								-.2037		-.0504		-.2144		-.0568	
180.000			.4893	.0837	-.1630	-.2042	-.2507	-.2100	-.1328	.1291	.1134	-.1208	-.1921	-.1522	.0393
210.000				.0702	-.1696	-.2136	-.2500	-.2100	-.1022	.1892	.3025	.1592	-.0521	-.1125	.0433
240.000	1.3670	.8624	.4581	.0659	-.1716	-.2138	-.2560	-.2140	-.0055	.1323	.3311	.0590	-.0690	-.2336	.0633
270.000		1.0230							.6039						

H/LT .7480 .6330 .9280

PHI															
.000	.0076	.0148	.0936												
30.000	.0032	.0241	.0919												
60.000	.0099	.0740	.1670												
90.000	.0276	.1620													
120.000	.0483	.1746	.2846												
150.000	.0590	.2248	.2771												
180.000	.0496	.2344	.2116												
210.000	.0909	.2443	.2556												
240.000	.0939	.2377	.2443												

ALPHAT (3) = 6.140 BETAT (4) = 3.820

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0080	.0490	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6380
PHI															
.000	1.3680	1.2950	.8566	.3933	.0615	-.0021	-.0666	-.0529	-.0277	.0367	.2095	.0980	.0085	-.0084	.0109
30.000			.7597	.3103	-.0007	-.0613	-.1228	-.1085	-.0564	.1796	.1262	.0265	-.0197	-.0151	-.0124
60.000			.6363	.2041	-.0782	-.1315	-.1887	-.1529	.1078	.3610	-.0642	.0032	.0395	.0203	-.0187
90.000		.9091	.5281	.1166	-.1421	-.1874	-.2299	-.2046	.5437		-.2660	-.2366	-.0413	.0082	-.0124
120.000			.4594	.0847	-.1731	-.2150	-.2420	-.2135	.0014	-.1323	-.2610	-.2646	-.0423	-.0230	.0469
150.000								-.2156		.0913		-.1049		.0849	
180.000			.4386	.0475	-.1810	-.2220	-.2410	-.2166	-.0336	.1696	.1385	-.1126	-.2203	-.1641	.0059
210.000				.0482	-.1807	-.2200	-.2625	-.2276	-.0073	.2029	.2198	.0308	-.0856	-.1501	.0952
240.000	1.3680	.8367	.4454	.0528	-.1747	-.2176	-.2609	-.2384	.0263	.1212	.2864	-.0144	.0026	-.1368	.0455
270.000		1.1220							.6453						

H/LT .7480 .6330 .9280

PHI



TABULATED PRESSURE DATA - 1A34B - VOL. 2

ARC07-716 1A14 CR-712-SIZES-A711 EXTERNAL TANK

08837111

ALPHAT (S) = 0.140 BETAT (4) = 3.020

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT 7480 0.530 0.0200

PHI
 .000 .0012 .0056 .0504
 30.000 -.0197 .0137 .0926
 60.000 -.0096 .0631 .1324
 90.000 .0011 .1423 .2109
 120.000 .0960 .1937 .2109
 135.000 .0947 .2073 .1824
 150.000 .0917 .2006 .1191
 165.000 .1129 .2218 .1504
 180.000 .1029 .2325 .1036

ALPHAT (S) = 0.160 BETAT (S) = 7.030

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT .0000 .0000 .0490 .1130 .1700 .1940 .2130 .2420 .2800 .3440 .3940 .4310 .5030 .5560 .6360
 PHI
 .000 1.3210 1.2290 .8431 .3634 .0535 -.0087 -.0848 -.0702 -.0355 .0869 .1179 .0485 .0073 -.0103 -.0044
 30.000 .0796 .2929 -.0444 -.1029 -.1716 -.1634 -.1224 .1820 .1431 .0176 -.0232 -.0206 -.0123
 60.000 .5311 .1300 -.1409 -.1906 -.2279 -.1978 .1259 .3077 .0178 .0314 .0266 .0182 .0303
 90.000 .4360 .0040 .1920 .2334 .2031 .2117 .4461 .2518 .2938 .0372 .0100 .0709
 120.000 .3690 .0233 .2046 .2414 .2097 .2044 .0632 .0763 .2462 .2080 .0056 .0709
 135.000 .3647 .0163 .2036 .2414 .2719 .2087 .0341 .1466 .1199 .1953 .1981 .0633 .0193
 150.000 .0263 .1996 .2364 .2763 .2544 .0377 .1902 .2159 .0153 .0717 .0543 .0449
 165.000 1.3210 .7327 .4231 .0400 .1890 .2320 .2719 .2560 .0347 .0790 .1621 .0717 .0306 .0223
 180.000 1.2220
 270.000

N/LT 7480 0.530 0.0200
 PHI
 .000 .0599 .0295 .0713
 30.000 .0309 .0266 .0936
 60.000 .0309 .0620 .1726
 90.000 .0362 .1256 .1997
 120.000 .0932 .1324 .1697
 135.000 .1023 .1691 .1620
 150.000 .0944 .1703 .0570
 165.000 .1047 .2097 .2202
 180.000 .0901 .2160 .1494

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ARC57-716 1A14 01+712+512N5+AT11 EXTERNAL TANK

(083112) (18 JAN 74)

REFERENCE DATA

WARP = 2.4210 36-FT. WARP = 29.5600 INCHES

LARP = 38.7000 INCHES WARP = .0000 INCHES

ORP = 38.7000 INCHES WARP = .0000 INCHES

SCALE = .0300 SCALE

MACH = 2.200 ELEVON = .000

RUDDER = .000 SPDRBK = .000

ALPHA(1) = -0.000 BETAT(1) = -0.100

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PM1															
.000	1.2000	.8648	.3953	.0882	-.0887	-.1173	-.1488	-.1492	-.1375	-.0819	.0308	-.0679	-.1196	-.1136	-.0993
30.000			.5093	.1643	-.0418	-.0776	-.1173	-.1153	-.1149	-.0306	-.1610	-.2120	-.1444	-.0870	-.0977
60.000			.6767	.2850	.0397	-.0036	-.0539	-.0532	.0255	.0182	-.2470	-.2053	-.1044	-.1240	-.0593
90.000		1.2181	.8561	.4160	.1301	.0767	.0176	.0172	.4411	-.2284	-.1591	.0759	.0809	-.0269	
120.000			.9640	.4980	.1902	.1316	.0672	.0626	.1156	.5193	.0288	.1065	.1870	.2969	.1607
135.000							.0705	.0705		.1964		.2511		.2089	
150.000			.9684	.5029	.1934	.1353	.0648	.0727	.0804	.2551	.3907	.3823	.1800	.1096	.1558
165.000			.4613	.1634	.1070	.0455	.0445	.0482	.2018	.3617	.5316	.2468	.1531	.1079	
180.000	1.5000	1.2983	.8816	.4090	.1316	.0762	.0233	.0226	.0182	.0375	.4286	.5912	.2610	.0606	.0772
270.000		.8441							.1399						

X/LT .7480 .8530 .9280

PM1															
.000	1.2000	.8648	.3953	.0882	-.0887	-.1173	-.1488	-.1492	-.1375	-.0819	.0308	-.0679	-.1196	-.1136	-.0993
30.000			.5093	.1643	-.0418	-.0776	-.1173	-.1153	-.1149	-.0306	-.1610	-.2120	-.1444	-.0870	-.0977
60.000			.6767	.2850	.0397	-.0036	-.0539	-.0532	.0255	.0182	-.2470	-.2053	-.1044	-.1240	-.0593
90.000		1.2181	.8561	.4160	.1301	.0767	.0176	.0172	.4411	-.2284	-.1591	.0759	.0809	-.0269	
120.000			.9640	.4980	.1902	.1316	.0672	.0626	.1156	.5193	.0288	.1065	.1870	.2969	.1607
135.000							.0705	.0705		.1964		.2511		.2089	
150.000			.9684	.5029	.1934	.1353	.0648	.0727	.0804	.2551	.3907	.3823	.1800	.1096	.1558
165.000			.4613	.1634	.1070	.0455	.0445	.0482	.2018	.3617	.5316	.2468	.1531	.1079	
180.000	1.5000	1.2983	.8816	.4090	.1316	.0762	.0233	.0226	.0182	.0375	.4286	.5912	.2610	.0606	.0772
270.000		.8441							.1399						

ALPHA(1) = -0.300 BETAT(2) = -4.110

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PM1															
.000	1.2000	.8648	.3953	.0882	-.0887	-.1173	-.1488	-.1492	-.1375	-.0819	.0308	-.0679	-.1196	-.1136	-.0993
30.000			.5093	.1643	-.0418	-.0776	-.1173	-.1153	-.1149	-.0306	-.1610	-.2120	-.1444	-.0870	-.0977
60.000			.6767	.2850	.0397	-.0036	-.0539	-.0532	.0255	.0182	-.2470	-.2053	-.1044	-.1240	-.0593
90.000		1.2181	.8561	.4160	.1301	.0767	.0176	.0172	.4411	-.2284	-.1591	.0759	.0809	-.0269	
120.000			.9640	.4980	.1902	.1316	.0672	.0626	.1156	.5193	.0288	.1065	.1870	.2969	.1607
135.000							.0705	.0705		.1964		.2511		.2089	
150.000			.9684	.5029	.1934	.1353	.0648	.0727	.0804	.2551	.3907	.3823	.1800	.1096	.1558
165.000			.4613	.1634	.1070	.0455	.0445	.0482	.2018	.3617	.5316	.2468	.1531	.1079	
180.000	1.5000	1.2983	.8816	.4090	.1316	.0762	.0233	.0226	.0182	.0375	.4286	.5912	.2610	.0606	.0772
270.000		.8441							.1399						



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 947

ARC07-716 1A14 C0+712+SIENB+AT11 EXTERNAL TANK

08037121

ALPHAT(1) = -0.300 BETAT(2) = -4.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	0.0000	0.0060	0.0490	0.1130	0.1780	0.1940	0.2150	0.2400	0.2900	0.3440	0.3940	0.4310	0.5000	0.5900	0.6300
PH1															
100.000															
160.000	1.5870	1.8030	0.8782	0.4990	0.1619	0.1048	0.0368	0.002	0.008	0.0191	0.3144	0.0708	0.1493	0.0930	0.0760
270.000		0.7011		0.4301	0.1434	0.0910	0.0319	0.0267	0.0416	0.0443	0.3907	0.6113	0.2101	0.0300	0.0301

H/LT	0.0000	0.0060	0.0490	0.1130	0.1780	0.1940	0.2150	0.2400	0.2900	0.3440	0.3940	0.4310	0.5000	0.5900	0.6300
PH2															
100.000															
160.000	1.5870	1.8030	0.8782	0.4990	0.1619	0.1048	0.0368	0.002	0.008	0.0191	0.3144	0.0708	0.1493	0.0930	0.0760
270.000		0.7011		0.4301	0.1434	0.0910	0.0319	0.0267	0.0416	0.0443	0.3907	0.6113	0.2101	0.0300	0.0301

ALPHAT(1) = -0.300 BETAT(3) = -0.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	0.0000	0.0060	0.0490	0.1130	0.1780	0.1940	0.2150	0.2400	0.2900	0.3440	0.3940	0.4310	0.5000	0.5900	0.6300
PH1															
100.000															
160.000	1.5870	1.8030	0.8782	0.4990	0.1619	0.1048	0.0368	0.002	0.008	0.0191	0.3144	0.0708	0.1493	0.0930	0.0760
270.000		0.7011		0.4301	0.1434	0.0910	0.0319	0.0267	0.0416	0.0443	0.3907	0.6113	0.2101	0.0300	0.0301

H/LT	0.0000	0.0060	0.0490	0.1130	0.1780	0.1940	0.2150	0.2400	0.2900	0.3440	0.3940	0.4310	0.5000	0.5900	0.6300
PH2															
100.000															
160.000	1.5870	1.8030	0.8782	0.4990	0.1619	0.1048	0.0368	0.002	0.008	0.0191	0.3144	0.0708	0.1493	0.0930	0.0760
270.000		0.7011		0.4301	0.1434	0.0910	0.0319	0.0267	0.0416	0.0443	0.3907	0.6113	0.2101	0.0300	0.0301

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 01+712+518MS+1711 EXTERNAL TANK (083712)

ALPHAT(1) = -0.360 BETAT(3) = -.020

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

Z/LT .7480 .0530 .0260

PHI

100.000 .0716 .0337 .2840
100.000 .0490 .0760 .3206

ALPHAT(1) = -0.360 BETAT(4) = 3.990

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

Z/LT .0000 .0000 .0400 .1120 .1700 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5560 .6360

PHI

.000 1.3290 .6824 .4094 .0809 -.0764 -.1066 -.1364 -.1317 -.1119 .0134 .0750 .0027 -.0483 -.1024 -.1012
30.000 .4010 .0833 -.0902 -.1146 -.1435 -.1435 -.1229 -.1060 -.0433 -.0455 -.0325 -.0921 -.1164 -.1022
60.000 .4243 .1024 -.0774 -.1071 -.1293 -.1310 -.1310 -.1169 .0016 -.2404 -.2134 -.1646 -.1149 -.0206
90.000 .4906 .1225 -.0461 -.0766 -.1151 -.1149 .2374 .2374 .2466 .1351 .1375 .1564 .1024 .0240 -.0125
120.000 .6065 .2538 .0036 -.0336 -.0792 -.0553 -.0553 .0323 .0323 .1500 .1500 .0631 .0631
150.000 .7246 .3164 .0627 .0174 -.0394 -.0345 -.0244 .2316 .2639 .1193 -.0010 .0071 .0105
180.000 .8571 .3626 .1061 .0553 -.0023 -.0034 .0060 .2659 .3179 .2276 .1380 .0545 .0661
210.000 1.0480 .4161 .1340 .0791 .0173 .0143 .0315 .1913 .3516 .4556 .1498 .1043 .0904
270.000 1.0500 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280 .0280

Z/LT .7480 .0530 .0260

PHI

.000 -.0556 -.0078 -.0035
30.000 -.0257 -.0018 -.0013
60.000 -.0240 -.0216 .0723
90.000 .0101 -.0498
120.000 .0178 -.0101 .0737
150.000 .0010 .0367 .1073
180.000 -.0270 .0321 .0441
210.000 .0368 .0716 .2030
270.000 .0571 .0633 .1761

TABULATED PRESSURE DATA - 1A14B - VOL. 2

DATE 27 JAN 73

ARC57-716 1A14 Q1+112+312M5+AT111 EXTERNAL TANK

08037121

ALPHAT(1) = -0.410 BETAT(1) = 0.040

SECTION (1) INTERNAL TANK		DEPENDENT VARIABLE CP														
H/LT		.0000	.0080	.0480	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5500	.6360
PHI																
00.000	1.4820	.6363	.3992	.0944	-.0001	-.1107	-.1413	-.1412	-.1327	-.0308	.0545	-.0356	-.0808	-.1104	-.0825	
30.000			.3460	.0361	-.1004	-.1252	-.1511	-.1415	-.1088	-.0202	-.0869	-.0420	-.0878	-.1273	-.1272	
60.000			.3520	.0564	-.0966	-.1220	-.1400	-.1432	-.0824	.0049	-.2191	-.1766	-.1464	-.1080	-.0241	
90.000		.6664	.3968	.0876	-.0806	-.1110	-.1425	-.1422	.1612	-.0177	-.2076	-.0214	.0130	-.1015	.0008	
120.000			.4959	.1631	-.0356	-.0713	-.1115	-.1127	.0638	-.0177	.2176	.1036	.1035	.0193	-.0209	
150.000								-.0876		.0297		.1176		.0269		
180.000			.6294	.2636	.0234	-.0155	-.0653	-.0646	-.0515	.2204	.2036	-.0155	-.0314	-.0390	-.0178	
210.000				.3521	.0870	.0381	-.0192	-.0216	-.0125	.1997	.2371	.1624	.1717	.0714	.0298	
240.000				.4118	.1340	.0782	.0147	.0150	.0236	.1619	.3376	.4303	.0564	.0137	.0013	
270.000	1.4820	1.8000	.8369							.4161						

H/LT .7480 .8530 .9280

PHI	.000	-.0971	-.0422	-.0294
30.000		-.0173	-.0236	-.0314
60.000		-.0214	-.0319	.0979
90.000		-.0429	-.0027	
120.000		-.0319	-.0044	.0417
150.000		-.0363	-.0012	.0307
180.000		-.0677	-.0159	-.0029
210.000		-.0137	.0447	.1376
240.000		.0204	.0221	.1462

ALPHAT(2) = -4.300 BETAT(2) = -0.070

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
H/LT		.0000	.0080	.0480	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5500	.6360
PHI																
.0000	1.5300	.7919	.4968	.1521	-.0510	-.0646	-.1206	-.1189	-.0810	.0073	.0664	-.0179	-.0715	-.0950	-.0771	
30.000			.6166	.2883	.0071	-.0329	-.0792	-.0766	-.0648	-.0097	-.0845	-.1535	-.1432	-.0431	-.0483	
60.000			.7320	.3365	.0775	.0311	-.0212	-.0234	-.0076	.1977	-.2053	-.1820	-.0127	-.0105	-.0600	
90.000	1.2380		.6634	.4834	.1356	.0914	.0210	.0205	.4145		-.2428	-.1959	.0728	.0229	-.0353	
120.000			.8963	.4491	.1959	.0993	.0344	.0352	.0815	.4039	-.0543	.0448	.0740	.2401	.1611	
150.000								.0249		.3004		.1576		.1508		
180.000			.6000	.4183	.1307	.0804	.0171	.0191	.0476	.1425	.3328	.1987	.1301	.0561	.1422	
210.000				.3648	.0951	.0456	-.0090	-.0102	-.0030	.1371	.2964	.5051	.1928	.0931	.0617	
240.000				.3167	.0695	.0176	-.0305	-.0276	-.0290	.0144	.3674	.5208	.2112	.0314	.0407	
270.000	1.5300	1.1340	.7261						.1565							

H/LT .7480 .8530 .9280

PHI	.000	-.0971	-.0422	-.0294
30.000		-.0173	-.0236	-.0314
60.000		-.0214	-.0319	.0979
90.000		-.0429	-.0027	
120.000		-.0319	-.0044	.0417
150.000		-.0363	-.0012	.0307
180.000		-.0677	-.0159	-.0029
210.000		-.0137	.0447	.1376
240.000		.0204	.0221	.1462

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ARC97-710 1A14 01-112-312035-AT11 EXTERNAL TANK (003712)

ALPHA1 (2) = -4.300 BETAT (1) = -0.070

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.7480	.8530	.9280
PHI			
.000	-.0837	-.0582	-.0308
30.000	-.0754	-.0832	-.0743
60.000	-.0339	.0076	.1015
90.000	-.0436	-.0368	
120.000	.1210	.0599	.4233
135.000	.1188	.1663	.2945
150.000	.1304	.1714	.2972
165.000	.0713	.1071	.4171
180.000	.0637	.0934	.3889

ALPHA1 (2) = -4.280 BETAT (2) = -4.020

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/L	.0000	.0280	.0480	.1130	.1780	.1940	.2150	.2420	.2600	.3440	.3940	.4510	.5030	.5580	.6380
PHI															
.000	1.5800	.8075	.5100	.1610	-.0372	-.0714	-.1073	-.1017	-.0705	.0040	.0992	.0345	-.0278	-.0832	-.0788
30.000			.5752	.2037	-.0098	-.0462	-.0997	-.0676	-.0634	-.0200	-.0371	-.1120	-.1030	-.0571	-.0231
60.000			.6802	.2684	.0308	-.0096	-.0571	-.0598	-.0408	.1619	-.2055	-.1992	-.0796	-.0049	-.0720
90.000		1.1180	.7436	.3323	.0728	.0242	-.0286	-.0278	.3720		-.2419	-.1970	-.0210	-.0312	-.0873
120.000			.7930	.3711	.0989	.0503	-.0067	-.0066	.0340	.4069	-.0412	.0022	.0789	.1899	.0928
135.000							-.0037	-.0037		.0880		.2007		.0373	
150.000			.7996	.3740	.1026	.0525	-.0082	.0004	.0141	.1514	.3509	.2210	.0804	.0129	.0468
165.000				.3520	.0899	.0425	-.0126	-.0113	-.0060	.1445	.2789	.4256	.1260	.0457	.0323
180.000	1.5800	1.1300	.7421	.3330	.0791	.0295	-.0208	-.0235	-.0055	.1641	.3252	.5245	.1995	.0175	-.0135
270.000		.7936							.2295						

X/L .7480 .8530 .9280

PHI			
.000	-.0531	-.0135	.0018
30.000	-.0269	-.0415	-.0418
60.000	-.0045	.0081	.0921
90.000	.0138	-.0024	
120.000	.0471	.0213	.2902
135.000	.0674	.1132	.2367
150.000	.0716	.0974	.2309
165.000	.0511	.0206	.3377
180.000	.0437	.0296	.3241



ARC97-716 1A14 CR+712+SIGN5+AT11 EXTERNAL TANK (0837112)

ALPHAT(2) = -4.290 BETAT(3) = -.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.5030	.5960	.6360
PW1															
30.000	1.5640	.6204	.5164	.1692	-.0427	-.0766	-.1146	-.1071	-.0762	-.0296	.0905	.0449	-.0036	-.0609	-.1084
60.000			.5363	.1792	-.0354	-.0697	-.1104	-.1053	-.0763	-.0464	.0216	-.0667	-.0834	-.1010	-.0222
90.000			.5799	.2034	-.0189	-.0374	-.0941	-.0943	-.0726	.1629	-.2015	-.2063	-.0961	.0036	1.0379
120.000		.0794	.6316	.2463	.0034	-.0363	-.0799	-.0775	.3337	-.2454	-.1999	-.0405	.0091	-.0969	
150.000			.6657	.2935	.0343	-.0106	-.0555	-.0335	-.0433	.4227	-.0304	.0055	.0133	.1696	.0371
180.000							-.0447	-.0345	.0343	.2072				.0311	
210.000			.7355	.3296	.0571	.0116	-.0394	-.0355	-.0194	.1815	.2365	.1935	.0219	-.0065	-.0036
240.000			.7335	.3346	.0640	.0197	-.0323	-.0303	-.0209	.2105	.3030	.2611	.1497	.0961	-.0011
270.000	1.5640	1.1290	.7335	.3373	.0667	.0184	-.0335	-.0325	-.0066	.1602	.3145	.4533	.0902	.0396	.0072
		.8363							-.2646						

H/LT .7460 .6530 .8260

PW1

30.000	-.0249	-.0018	.0187
60.000	-.0408	-.0103	-.0032
90.000	-.0470	-.0209	.1006
120.000	.0243	-.0282	.1953
150.000	.0434	-.0328	.1310
180.000	.0341	-.0103	.2563
210.000	.0422	-.0476	.2636

ALPHAT(2) = -4.290 BETAT(4) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.5030	.5960	.6360
PW1															
30.000	1.5630	.6172	.5046	.1535	-.0417	-.0760	-.1162	-.1096	-.0922	-.0343	.0632	.0354	-.0226	-.0613	-.0865
60.000			.4740	.1351	-.0326	-.0676	-.1250	-.1037	-.0665	-.0370	-.0592	.0187	-.0430	-.0691	-.0591
90.000			.4793	.1336	-.0393	-.0671	-.1133	-.1096	-.0608	.1551	-.1818	-.1932	-.0586	-.0098	-.0606
120.000		.6262	.5136	.1362	-.0422	-.0735	-.1096	-.1057	.2534	-.2417	-.1810	.0040	-.0166	-.1136	
150.000			.5723	.2037	-.0112	-.0491	-.0902	-.0897	-.0449	.2941	-.0175	.0426	-.0081	.0944	-.0093
180.000							-.0762	-.0159						.0306	
210.000			.6434	.2552	.0206	-.0223	-.0711	-.0647	-.0484	.1661	.2116	.1151	-.0177	-.0306	-.0360
240.000			.5007	.0457	.0001	-.0471	-.0456	-.0336	.2215	.2606	.1466	.0896	.0632	-.0132	
270.000	1.5630	1.1130	.7394	.3266	.0647	.0179	-.0336	-.0346	-.0185	.1756	.2995	.5609	.1036	.0536	-.0063
		1.0900							.3661						

H/LT .7460 .6530 .8260

PW1

ORIGINAL BASED ON
POOR QUALITY

ARC57-716 1A14 O1+712+812N2+AT11 EXTERNAL TANK (N83712)

ALPHAT(2) = -4.290 BETAT(4) = 3.920

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT 7480 .9530 .9280

PHI
.0000 -.0446 -.0219 -.0012
30.0000 -.0372 -.0165 -.0009
60.0000 -.0272 -.0165 .0913
90.0000 -.0235 -.0256
120.0000 -.0070 -.0073 .0529
135.0000 -.0156 .0284 .0970
150.0000 -.0261 .0206 .0292
165.0000 .0334 .0612 .1703
180.0000 .0235 .0731 .1434

ALPHAT(2) = -4.290 BETAT(5) = 7.980

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0080 .0490 .1130 .1760 .1940 .2130 .2480 .2900 .3440 .3940 .4510 .5030 .5580 .6380

PHI
.0000 1.5430 .7940 .4966 .1552 -.0431 -.0776 -.1153 -.1140 -.1066 -.0869 .0956 .0123 -.0646 -.0975 -.0731
30.0000 .4283 .1055 -.0749 -.1052 -.1372 -.1502 -.1063 .0193 -.1241 -.0696 -.0838 -.1142 -.0899
60.0000 .4019 .0855 .0626 .1099 .1321 .1161 .0713 .1497 .1562 .1794 .0147 .0396 .0722
90.0000 .4142 .0903 .0761 .1057 .1370 .1336 .1662 .2377 .2377 .1319 .0000 .0704 .0432
120.0000 .4894 .1421 .0510 .0845 .1211 .1191 .0426 .0457 .0953 .0576 .0713 .0114 .0641
135.0000 .5631 .2052 .0148 .0318 .0963 .0531 .0728 .1648 .1692 .0135 .0804 .0842 .0567
150.0000 .2695 .0295 .0141 .0646 .0656 .0319 .1761 .2249 .0780 .1486 .0237 .0309
165.0000 1.5430 1.0980 .7176 .3176 .0637 .0162 .0359 .0142 .1315 .2692 .0453 .0176 .0447
180.0000 1.2230 .4011

X/LT 7480 .9530 .9280

PHI
.0000 -.0471 -.0717 -.0486
30.0000 -.0422 -.0332 -.0233
60.0000 .0451 .0270 .1236
90.0000 .0422 .0406
120.0000 .0332 .0256 .0119
135.0000 .0636 .0223 .0215
150.0000 .0930 .0396 .0169
165.0000 .0339 .0201 .1034
180.0000 .0061 .0095 .1091



DATE 8P JAN 73

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 583

ARC97-718 1A14 Q1712-S12MS-A711 EXTERNAL TANK

(083718)

ALPHAT (3) = -.310 BETAT (1) = -8.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600		
PM1															
.000	1.5360	.9147	.5956	.2214	-.0009	-.0461	-.0882	-.0972	-.0707	-.0080	.0767	.0180	-.0439	-.0698	-.0611
30.000			.7130	.3076	.0530	.0059	-.0446	-.0440	-.0256	.0424	-.0033	-.0901	-.0812	-.0219	-.0163
60.000			.8100	.3795	.1008	.0300	-.0059	-.0032	.0230	.2856	-.1429	-.1102	-.0145	.0281	-.0185
90.000		1.2320	.8224	.4134	.1196	.0665	.0135	.0123	.3959		-.1350	-.1610	-.0000	-.0323	-.0438
120.000			.8122	.3671	.1038	.0316	.0010	-.0022	.0308	.2879	-.1357	-.0346	-.0019	.1391	.1432
150.000								-.0184		.2711		.0931		.0496	
180.000			.7396	.3233	.0663	.0198	-.0351	-.0307	-.0063	.0851	.2515	.1124	.0444	.0516	.0759
210.000				.2682	.0276	-.0136	-.0621	-.0612	-.0564	.0448	.2404	.4329	.1798	.0557	.0471
240.000	1.5760	.9964	.6037	.2265	.0054	-.0357	-.0793	-.0766	-.0660	.0177	.3227	.4714	.1845	.0117	-.0131
270.000		.6921							.1513						

X/LT .7480 .8530 .9280

PM1

.000	-.0391	-.0308	-.0519												
30.000	-.0414	-.0535	-.0027												
60.000	.0093	.0179	.1348												
90.000	-.0207	.0204													
120.000	.1029	.0608	.4923												
150.000	.1433	.1833	.3346												
180.000	.1167	.1794	.3233												
210.000	.0807	.1304	.4223												
240.000	.0294	.0914	.3921												

ALPHAT (3) = -.310 BETAT (2) = -4.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0050	.0100	.1150	.1700	.1940	.2150	.2420	.2600	.3440	.3940	.4350	.5050	.5900	.6300
PM1															
.000	1.5550	.9253	.6034	.2536	.0025	-.0365	-.0787	-.0760	-.0471	.0046	.0844	.0241	-.0029	-.0336	-.0598
30.000			.6659	.2784	.0302	-.0122	-.0503	-.0569	-.0380	.0044	.0508	-.0539	-.0473	-.0532	-.0055
60.000			.7239	.3163	.0369	.0130	-.0366	-.0386	-.0065	.2639	-.1398	-.1154	-.0711	.0215	-.0111
90.000		1.0930	.7484	.3510	.0707	.0226	-.0266	-.0286	.3597		-.1592	-.1734	-.0633	-.0466	-.0815
120.000			.7296	.3247	.0645	.0162	-.0337	-.0340	.0007	.2668	-.1278	.0146	-.0156	.0873	.0902
150.000								-.0374		.0913		.0946		.0036	
180.000			.6928	.2945	.0458	.0032	-.0469	-.0432	-.0126	.0257	.2812	.1169	.1113	-.0221	-.0039
210.000			.2695	.2695	.0266	-.0132	-.0801	-.0369	-.0399	.0542	.2264	.3942	.0841	.0031	-.0160
240.000	1.5550	.9601	.6186	.2406	.0162	-.0262	-.0662	-.0667	-.0475	.1255	.2908	.4412	.1786	.0127	-.0487
270.000		.7996							.2755						

X/LT .7480 .8530 .9280

PM1

(R53712)

ARC97-736 1A14 Q1+112+312N25+AT11 EXTERNAL TANK

ALPHAT (3) = -.310 BETAT (2) = -4.080

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7480 .8530 .9280

PMI
.000 -.0319 -.0259 -.0117
30.000 -.0273 -.0234 .0159
60.000 -.0277 .0100 .1354
90.000 -.0170 .0623
120.000 .0202 .0171 .3459
135.000 .0160 .1303 .2629
150.000 .0816 .1381 .2668
165.000 .0274 .0982 .3663
180.000 .0320 .0866 .3272

ALPHAT (3) = -.300 BETAT (3) = -.100

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0080 .0490 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5560 .6360
PMI
.000 1.5670 .9613 .6247 .2365 .0074 -.0335 -.0773 -.0742 -.0461 -.0297 .0910 .0767 .0248 -.0232 -.0757
30.000 .6306 .2437 .0089 -.0330 -.0701 -.0715 -.0415 -.0034 .0142 -.0143 -.0371 -.0372 -.0003
60.000 .6363 .2503 .0096 -.0301 -.0727 -.0742 -.0425 .2866 -.1247 -.1544 -.0603 .0168 .0107
90.000 .6404 .2537 .0116 -.0323 -.0774 -.0696 .3279 -.2779 -.1275 .0141 -.0263 -.0994
120.000 .6416 .2574 .0116 -.0252 -.0716 -.0708 -.0288 .3090 -.0812 -.0330 .1115 .0408
135.000 .6463 .2503 .0116 -.0225 -.0715 -.0674 -.0482 .1396 -.0243 .1225 -.0363
150.000 .6463 .2529 .0099 -.0244 -.0728 -.0691 .1708 .2432 .2391 .1142 .0603 -.0326
165.000 .6392 .2529 .0082 -.0313 -.0705 -.0716 -.0450 .1354 .2628 .3600 .0976 .0041 .0299
180.000 .6522

X/LT .7480 .8530 .9280

PMI
.000 -.0126 -.0101 .0024
30.000 -.0263 -.0069 .0122
60.000 -.0113 .0113 .0667
90.000 -.0162 .0115
120.000 -.0111 .0160 .2096
135.000 .0293 .0603 .1772
150.000 .0076 .0623 .1502
165.000 .0171 .0726 .2488
180.000 .0260 .0461 .2382



ARC97-716 1A14 Q1-718-812N2-AT11 EXTERNAL TANK (083712)

ALPMAT (3) = -.300 BETAT (4) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

M/LT	.0000	.0060	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
PM1															
.000	1.5680	.9563	.6224	.2367	.0047	-.0357	-.0765	-.0741	-.0543	-.0491	.1282	.0657	.0106	-.0329	-.0665
30.000			.5704	.1961	-.0195	-.0580	-.0942	-.0899	-.0567	.0055	-.0604	.0452	.0086	-.0412	-.0302
60.000			.5345	.1768	-.0322	-.0690	-.0992	-.0814	-.0533	.3322	-.0957	-.1361	-.0463	.0313	.0041
90.000		.6471	.5174	.1695	-.0369	-.0714	-.1045	-.0702	.3042		-.2216	-.0898	.0394	-.0316	-.1323
120.000			.5276	.1610	-.0305	-.0665	-.1023	-.0960	-.0694	.2662	-.0712	-.0466	-.0676	.0714	-.0110
135.000								-.0936		.0444		.1304		-.0113	
150.000			.5611	.2042	-.0151	-.0516	-.0941	-.0882	-.0621	.1608	.1926	.0965	-.0273	-.0612	-.0780
165.000			.2269	.0008	-.0008	-.0593	-.0816	-.0767	-.0609	.1637	.2127	.1536	.1175	.0364	-.0616
180.000	1.5680	.9795	.6195	.2472	.0116	-.0266	-.0707	-.0699	-.0499	.1275	.2370	.3116	.1549	.0171	-.0386
270.000		1.1050							.3565						

M/LT .7460 .6530 .6280

PM1

.000	-.0232	-.0208	-.0079
30.000	-.0355	-.0170	.0247
60.000	-.0416	-.0065	.1169
90.000	-.0582	.0228	
120.000	-.0333	.0291	.0911
135.000	-.0147	.0516	.1214
150.000	-.0233	.0479	.0328
165.000	.0177	.0792	.1753
180.000	.0099	.0957	.1543

ALPMAT (3) = -.310 BETAT (4) = 6.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

M/LT	.0000	.0060	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
PM1															
.000	1.5480	.9226	.5980	.2309	.0037	-.0373	-.0792	-.0798	-.0757	-.0679	.0861	.0344	-.0315	-.0714	-.0672
30.000			.4992	.1619	-.0427	-.0768	-.1163	-.1145	-.0972	.0699	-.0750	-.0628	-.0657	-.0772	-.0434
60.000			.4419	.1164	-.0707	-.0989	-.1219	-.1052	-.0737	.2279	-.0770	-.1225	-.0023	.0335	-.0329
90.000		.7136	.4233	.1049	-.0731	-.1035	-.1299	-.1116	.1906		-.2177	-.0464	.0310	-.0576	-.0663
120.000			.4463	.1267	-.0662	-.0959	-.1277	-.1250	-.0014	.1403	-.0142	-.0104	-.0731	-.0177	-.0743
135.000								-.1192		-.0525		.0667		-.0418	
150.000			.5007	.1602	-.0459	-.0763	-.1167	-.1113	-.0685	.1320	.1371	-.0187	-.1172	-.1124	-.0821
165.000			.2022	-.0179	-.0534	-.0964	-.0947	-.0947	-.0765	.1226	.2031	.0209	.1049	-.0072	-.0694
180.000	1.5480	.9635	.6135	.2431	.0066	-.0334	-.0750	-.0740	-.0360	.0927	.2561	.2766	.0265	-.0393	-.0627
270.000		1.2310							.3973						

M/LT .7460 .6530 .6280

PM1

ARC97-716 1A14 Q1+712+312/25+AT11 EXTERNAL TANK (RB3712)

ALPHAT (3) = -.310 BETAT (5) = 0.020

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT .7400 .0530 .0200

PHI
 .0000 -.0508 -.0577 -.0555
 30.0000 -.0597 -.0401 -.0085
 60.0000 -.0830 -.0203 .1090
 90.0000 -.0740 .0144
 120.0000 -.0613 .0073 .0667
 150.0000 -.0659 .0073 .0662
 180.0000 -.0760 -.0127 .0330
 210.0000 -.0662 .0381 .1197
 240.0000 -.0298 -.0056 .1251

ALPHAT (4) = 3.990 BETAT (1) = -0.120

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT .0000 .0000 .0400 .1130 .1780 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5580 .6380

PHI
 .0000 1.9290 1.0530 .7125 .3097 .0573 .0129 -.0395 -.0402 -.0349 -.0317 .0516 .0363 .0137 -.0218 -.0363
 30.0000 .0203 .3989 .1210 .0678 .0075 .0105 .0329 .1089 .0951 -.0149 -.0326 .0086 .0242
 60.0000 .6815 .4437 .1470 .0943 .0346 .0339 .0749 .3996 -.0607 -.0360 .0216 .0407 .0476
 90.0000 1.8250 .8447 .4155 .1288 .0821 .0205 .4128 -.1226 -.0361 .0443 .0556 .0485
 120.0000 .7367 .3352 .0726 .0311 -.0220 -.0232 -.0010 .1596 -.0911 -.1271 -.0365 .0321 .0921
 150.0000 .6320 .2485 .0181 -.0214 -.0671 -.0661 -.0459 .0600 .1089 .0394 .0125 .0291 .0348
 180.0000 1.0260 .8626 .1875 -.0226 -.0582 -.0983 -.0954 -.0909 .0059 .1593 .1511 .0291 .0304
 210.0000 .6897 .1483 -.0442 -.0766 -.1115 -.1003 -.0946 .0177 .3266 .4103 .1506 -.0074 -.0262
 240.0000 .0253

H/LT .7400 .0530 .0200

PHI
 .0000 -.0404 -.0311 -.0244
 30.0000 .0061 -.0066 .0337
 60.0000 .0421 .0367 .1383
 90.0000 .0094 .0483
 120.0000 .0692 .0627 .5825
 150.0000 .0990 .2041 .3957
 180.0000 .0769 .2189 .3832
 210.0000 .0339 .1771 .4706
 240.0000 .0143 .1854 .4813



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+T12+512M25+AT11 EXTERNAL TANK (R037112)

ALPHAT (4) = 3.970 BETAT (2) = -4.080

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5090	.5960	.6360
PHI															
.000	1.5980	1.0790	.7327	.3225	.0591	.0141	-.0393	-.0319	-.0226	.0185	.1364	.0743	.0127	.0086	-.0177
30.000			.7912	.3656	.0945	.0349	-.0197	-.0117	.0172	.0760	.1376	.0205	-.0047	-.0003	.0519
60.000			.7963	.3695	.0980	.0406	-.0067	-.0095	.0274	.4034	-.0322	-.0730	-.0360	.0396	.0469
90.000	1.1090		.7496	.3379	.0666	.0191	-.0288	-.0260	.3626	-.1464	-.1339	.0538	.0638	.0640	.0462
120.000			.6673	.2764	.0260	-.0136	-.0329	-.0366	-.0306	.1567	-.1256	-.1395	-.0417	.0234	.0435
135.000							-.0729	-.0729		.1661		.0506		-.0116	
150.000			.5995	.2246	-.0037	-.0417	-.0606	-.0603	-.0466	.0162	.1477	.0569	.0034	-.0198	-.0136
165.000				.1836	-.0266	-.0645	-.0949	-.0942	-.0637	.0726	.2242	.3067	.0946	.0006	-.0282
180.000	1.5980	.8543	.5141	.1614	-.0400	-.0756	-.1016	-.0966	-.0613	.0664	.2313	.3544	.1294	.0112	-.0554
270.000		.8073							.3149						

X/LT .7460 .8530 .9260

PHI															
.000	-.0135	-.0032	.0017												
30.000	.0161	-.0010	.0403												
60.000	.0195	.0140	.1018												
90.000	.0099	.0566													
120.000	.0396	.0442	.3514												
135.000	.0313	.1549	.3149												
150.000	.0635	.1732	.3269												
165.000	.0064	.1600	.4133												
180.000	.0376	.1612	.3637												

ALPHAT (4) = 3.960 BETAT (3) = -.040

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5090	.5960	.6360
PHI															
.000	1.5970	1.1070	.7493	.3304	.0637	.0161	-.0351	-.0302	-.0202	.0200	.1353	.1216	.0614	.0216	-.0219
30.000			.7391	.3201	.0562	.0100	-.0413	-.0366	-.0034	.0365	-.0156	.0874	.0270	-.0022	.0003
60.000			.6946	.2903	.0351	-.0093	-.0534	-.0346	-.0134	.4417	-.0361	-.0829	-.0406	-.0014	.0348
90.000	.9867		.6342	.2472	.0067	-.0329	-.0732	-.0656	.3419	-.1536	-.1416	.0194	.0194	.1133	.0490
120.000			.5819	.2035	-.0132	-.0546	-.0917	-.0860	-.0615	.1607	-.1396	-.1235	-.0636	.0120	.0250
135.000							-.0954			.0435		.0665		-.0696	
150.000			.5565	.1746	-.0312	-.0662	-.1019	-.0966	-.0535	-.0172	.2168	.0972	-.0014	-.0535	-.0721
165.000				.1617	-.0369	-.0723	-.1066	-.1005	-.0600	.1065	.1727	.2156	.1001	.0253	-.0596
180.000	1.5970	.9223	.5234	.1575	-.0405	-.0745	-.1034	-.1036	-.0736	.0960	.2161	.2956	.1231	-.0067	-.0468
270.000		.9537							.3264						

X/LT .7460 .8530 .9260

PHI

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OF POOR QUALITY

DATE 87 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(0837112)

ARC97-716 1A14 Q1+718+812MS+AT111 EXTERNAL TANK

ALPHAT(4) = 3.080 BETAT(3) = -.040

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7480	.8530	.9280
PHI			
1.000	-.0026	.0137	.0117
30.000	.0136	.0036	.0222
60.000	.0125	.0012	.0089
90.000	-.0012	.0328	
120.000	-.0078	.0396	.2442
150.000	.0204	.1276	.2234
180.000	.0286	.1337	.1913
210.000	.0249	.1430	.2597
240.000	.0220	.1499	.2531

ALPHAT(4) = 3.980 BETAT(4) = 3.950

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PHI															
1.000	1.9720	1.1080	.7435	.3261	.0626	.0177	-.0371	-.0319	-.0266	-.0011	.1560	.0971	.0424	-.0043	-.0233
30.000			.6611	.2710	.0219	-.0182	-.0636	-.0619	-.0268	.0482	-.0394	.0123	.0157	-.0119	-.0360
60.000			.5792	.2087	-.0133	-.0516	-.0662	-.0875	-.0492	.4314	-.0141	-.0693	-.0244	-.0031	.0529
90.000		.6277	.5118	.1634	-.0415	-.0782	-.1092	-.0841	.3156	-.1643	-.1392	-.0124	.1159	.0429	
120.000			.4803	.1407	-.0565	-.0869	-.1167	-.0950	-.0772	.2011	-.1626	-.0974	-.0737	-.0033	-.0165
150.000								-.0982		-.0131		.0993		-.0873	
180.000			.4647	.1407	-.0560	-.0697	-.1221	-.1053	-.0724	.1278	.1903	.0753	-.0407	-.1029	-.0929
210.000				.1493	-.0474	-.0823	-.1150	-.1109	-.0906	.1303	.1656	.1335	.0648	-.0074	-.0592
240.000	1.9720	.8294	.5181	.1636	-.0598	-.0720	-.1077	-.1084	-.0743	.0987	.2028	.2154	.1369	-.0396	-.0514
270.000		1.1010							.3646						

X/LT .7480 .8530 .9280

PHI			
1.000	-.0099	.0789	.0034
30.000	-.0131	-.0133	-.0049
60.000	-.0149	-.0110	.0066
90.000	-.0314	.0962	
120.000	-.0131	.0691	.1782
150.000	.0130	.1042	.1522
180.000	.0024	.0994	.0913
210.000	.0303	.1222	.1750
240.000	.0083	.1393	.1508



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC07-716 1A14 CR+T12+812N25+AT11 EXTERNAL TANK (R057142)

ALPHAT(5) = 0.270 BETAT(1) = -0.190

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7480	.8530	.9280
PHI			
.000	.0135	.0150	.0246
30.000	.0828	.0513	.0518
60.000	.0802	.0718	.2449
90.000	.0803	.1490	
120.000	.0533	.0711	.4824
135.000	.0933	.2479	.4472
150.000	.0728	.2591	.4181
165.000	.0260	.2352	.4577
180.000	.0275	.2229	.3755

ALPHAT(5) = 0.240 BETAT(2) = -4.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0490	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6380
PHI															
.000	1.3280	1.2230	.8635	.4218	.1345	.0808	.0179	.0227	.0264	.0435	.1604	.1317	.0668	.0362	.0346
30.000			.8056	.4560	.1551	.0988	.0354	.0376	.0663	.1641	.0813	.1099	.0644	.0546	.0395
60.000			.8542	.4147	.1291	.0762	.0181	.0173	.0636	.5243	.0377	-.0024	.0206	.0543	.0737
90.000		1.0820	.7296	.3298	.0693	.0211	-.0285	-.0348	.3911	-.2066	-.1517	-.0783	.0219	.0473	
120.000			.5903	.2277	-.0042	-.0456	-.0843	-.0877	-.0669	.0100	-.1836	-.1568	-.1050	-.0120	.0309
135.000			.4980	.1576	-.0475	-.0842	-.1184	-.1172	-.0733	.0225	.0443	-.0110	-.0590	-.0396	-.2069
150.000				.1131	-.0687	-.1014	-.1313	-.1116	-.0812	.0477	.2273	.2289	.0561	-.0235	-.0316
165.000		1.5280	.7244	.4115	.0946	-.0755	-.1075	-.1138	-.0550	.0436	.2317	.2436	.0458	-.0106	-.0669
180.000			.7814				-.1330	-.1118	.3099						

X/LT .7480 .8530 .9280

PHI			
.000	.0378	.0364	.0409
30.000	.0910	.0475	.0450
60.000	.0802	.0450	.2050
90.000	.0133	.1804	
120.000	.0285	.0835	.3328
135.000	.0480	.1804	.3254
150.000	.0323	.1895	.3295
165.000	.0203	.2082	.4354
180.000	.0282	.1984	.4055



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083118)

ARC07-716 1A14 C0+712+312MS+AT11 EXTERNAL TANK

ALPHAT (5) = 0.870 BETAT (3) = -.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

N/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2120	.2420	.2900	.3440	.3940	.4510	.5030	.5360	.6360
PHI	.000	1.5910	1.2480	.8748	.4204	.1326	.0795	.0190	.0211	.0240	.0557	.1004	.1014	.0840	.0323
30.000				.8596	.4011	.1157	.0650	.0055	.0372	.1365	.0204	.0604	.0955	.0611	.0533
60.000				.7331	.3233	.0952	.0173	-.0313	.0104	.5375	.0327	-.0049	.0132	.0510	.0772
90.000				.6048	.2300	.0035	-.0303	-.0793	.3661		-.2130	-.1530	-.0244	.0509	.0191
120.000				.4986	.1655	-.0454	-.0791	-.1129	-.0912	.0072	-.1925	-.1809	-.0765	.0017	.0113
150.000								-.1127		.0347		-.0247		-.0400	
180.000				.4425	.1166	-.0871	-.0909	-.1295	-.0641	-.0352	.1453	.0205	-.0770	-.0815	.0376
210.000				.1029	-.0769	-.1077	-.1344	-.1161	-.0849	.0728	.1759	.1936	.0618	.0030	-.0591
240.000				.4107	.0970	-.0799	-.1086	-.1341	-.0543	.0657	.1973	.2934	.0931	-.0512	-.0713
270.000				.9340				-.1273	-.3709						

N/LT .7480 .6530 .9280

PHI

.000	.0396	.0405	.0393
30.000	.0599	.0400	.0297
60.000	.0440	.0226	.1636
90.000	-.0393	.1059	
120.000	.0098	.1037	.2389
150.000	.0361	.1649	.2342
180.000	.0111	.1762	.2205
210.000	.0190	.1899	.2712
240.000	.0150	.1670	.2526

ALPHAT (5) = 0.880 BETAT (4) = 4.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

N/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2120	.2420	.2900	.3440	.3940	.4510	.5030	.5360	.6360
PHI	.000	1.5530	1.2480	.8722	.4233	.1336	.0776	.0167	.0205	.0259	.0609	.1008	.0872	.0509	.0256
30.000				.7602	.3489	.0776	.0265	-.0249	.0127	.1196	.0335	.0241	.0346	.0258	.0236
60.000				.6162	.2403	.0082	-.0319	-.0725	-.0761	.3367	.0856	.0153	.0414	.0624	.0653
90.000				.4954	.1576	-.0406	-.0815	-.1131	-.0915		-.1976	-.1359	-.1096	-.0274	.0111
120.000				.4209	.1085	-.0793	-.1059	-.1316	-.1204	.0215	-.1800	-.1774	-.1018	-.0101	-.0245
150.000								-.1256		.0124		.0172		-.0952	
180.000				.4014	.0909	-.0844	-.1122	-.1394	-.0796	.0600	.1143	.0470	-.0671	-.1276	-.0813
210.000				.0918	-.0847	-.1141	-.1404	-.1331	-.0994	.1042	.1764	.1253	.0455	-.0403	-.0593
240.000				.4097	.0965	-.0812	-.1102	-.1360	-.0745	.0717	.1936	.1597	.1085	-.0664	-.0574
270.000				.7019				-.1343	.3695						

N/LT .7480 .6530 .9280

PHI

.000	.0396	.0405	.0393
30.000	.0599	.0400	.0297
60.000	.0440	.0226	.1636
90.000	-.0393	.1059	
120.000	.0098	.1037	.2389
150.000	.0361	.1649	.2342
180.000	.0111	.1762	.2205
210.000	.0190	.1899	.2712
240.000	.0150	.1670	.2526

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A140 - VOL. 2

(003712)

ARC97-716 1A14 OR-712-SIZES-A711 EXTERNAL TANK

ALPHAT (5) = 0.250 BETAT (4) = 4.030

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT .7480 .8530 .9280

Phi	.0000	.0388	.0428	.0448
30.000	.0343	.0147	.0176	
60.000	.0272	.0149	.1511	
90.000	-.1140	.1142		
120.000	.0253	.1380	.2206	
150.000	.0487	.1921	.1780	
180.000	.0316	.1482	.1284	
210.000	.0489	.1666	.1803	
240.000	.0333	.1839	.1507	

ALPHAT (5) = 0.320 BETAT (5) = 0.110

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
Phi	.0000	.12050	.0920	.4177	.1294	.0763	.0144	.0170	.0207	.0192	.0682	.0521	.0680	.0307	.0177
30.000		.6729	.6729	.2982	.0342	-.0076	-.0563	-.0544	-.0537	.1036	.1189	.0650	.0327	.0045	.0087
60.000		.9081	.9081	.1827	-.0441	-.0779	-.1056	-.1181	-.0346	.0045	.1006	.0514	.0338	.0509	.0152
90.000		.6780	.4007	.0886	-.0864	-.1160	-.1416	-.1225	.1592	-.1908	-.1246	-.0693	-.0693	-.0323	-.0353
120.000		.3528	.3528	.0602	-.1021	-.1271	-.1484	-.1412	-.0217	.0077	-.1674	-.1401	-.0961	-.0455	-.0340
150.000		.3318	.3318	.0611	-.1018	-.1263	-.1492	-.1402	-.0374	.0782	.0628	-.0341	-.1352	-.1470	-.0843
180.000		.3683	.3683	.0712	-.0960	-.1251	-.1494	-.1450	-.0906	.0592	.1582	-.0490	.0091	-.0455	-.0778
210.000		.0512	.0512	.0920	-.0855	-.1158	-.1426	-.1363	-.0306	.0158	.1853	.0606	-.0115	-.0193	-.0591
240.000		.8280	.8280						.4355						

H/LT .7480 .8530 .9280

Phi	.0000	.0128	.0097	.0189
30.000	.0085	-.0168	-.0213	
60.000	.0072	.0180	.1374	
90.000	-.0955	.0914		
120.000	.0143	.0908	.2272	
150.000	.0079	.1143	.1638	
180.000	.0041	.1104	.0962	
210.000	-.0227	.1850	.8099	
240.000	-.0391	.1243	.2052	



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+712+SIGNES (083713) (19 JAN 74)

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPDRK = .000

REFERENCE DATA

SRCP = 2.4210 34. FT. ZMRP = 29.5000 INCHES
LRCP = 36.7090 INCHES VMRP = .0000 INCHES
BRCP = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT (1) = -0.250 BETAT (1) = -0.100

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2480	.2900	.3440	.3940	.4310	.5050	.5590	.6360
PM1	.000	1.3100	.7930	.4106	.0340	-.1880	-.2289	-.2664	-.2263	.0407	-.0074	-.1130	-.1928	-.1801	-.0063
30.000				.5182	.1095	-.1356	-.1816	-.2360	-.2159	-.1404	-.3385	-.2827	-.1125	-.1144	-.0702
60.000				.6803	.2395	-.0326	-.0897	-.1557	-.1266	-.2059	-.4316	-.3174	-.1049	-.1164	.0095
90.000			1.2930	.8441	.3754	.0707	.0072	-.0659	-.0077	.8630	-.4246	-.0459	-.0830	-.1311	-.1130
120.000				.9413	.4599	.1291	.0653	-.0097	.0126	.4093	-.0855	.2537	.2921	.2958	.1020
150.000								.0094	.0094	.2910	.1633	.1633	.2403	.2403	
180.000				.9466	.4571	.1298	.0619	-.0158	.0054	.3148	.3104	.1765	.1648	.1370	.1023
210.000					.4318	.0967	.0292	-.0471	-.0088	.3640	.5109	.3616	.1521	.1298	.1057
240.000			1.3100	.8265	.3771	.0555	-.0036	-.0713	-.0193	.4570	.4819	.2726	.0047	.1454	.0223
270.000				.7762					.3622						

X/LT .7480 .9530 .9280

PM1	.000	.0925	.0106	.0125
30.000		-.0110	-.0012	.0402
60.000		-.0023	-.0100	.1237
90.000		-.0766	-.0702	
120.000		.0349	.0328	.2954
150.000		.0586	.0769	.1301
180.000		.0210	.0423	.1577
210.000		.0224	.0880	.0351
240.000		-.0261	.0688	.0004

ALPHAT (1) = -0.250 BETAT (2) = -3.750

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2480	.2900	.3440	.3940	.4310	.5050	.5590	.6360
PM1	.000	1.3070	.8436	.4536	.0615	-.1797	-.2208	-.2594	-.2113	.0703	.0354	-.0813	-.1747	-.1387	-.0238
30.000				.5129	.1015	-.1519	-.1996	-.2513	-.2106	-.0634	-.2919	-.2074	-.1029	-.0910	-.0731
60.000				.6112	.1772	-.0962	-.1492	-.2022	-.1744	-.2149	-.4176	-.3241	-.2347	-.1437	.0132
90.000			1.1450	.7405	.2850	-.0197	-.0803	-.1412	-.0876	.8430	-.4028	-.0372	-.1275	-.0668	-.0554
120.000				.8507	.3602	.0516	-.0133	-.0818	-.0469	.5086	-.0478	.2453	.2093	.1521	.0440
150.000								-.0492	-.0492	.2892	.1051	.1051	.1564	.1564	
180.000				.8999	.4195	.0851	.0195	-.0366	-.0412	.3729	.3546	.1940	.0734	.0641	.0553

ARCST-716 1A14 CR-TIE-SIGNEZ (083713)

ALPHA(1) = -0.250 BETA(2) = -3.750

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6340
ρ_{H1}				.4211	.0847	.0201	-.0339	-.0413	-.0049	.4162	.4870	.3121	.0896	.0380	.0487
165.000	1.3670	1.3040	.8719	.3974	.0698	.0046	-.0623	-.0536	-.0229	.4090	.5040	.3188	-.0291	.0293	.0800
270.000		.9104													

H/LT .7480 .8530 .9280

 ρ_{H1}

.000 .0093 -.0018 .0309

30.000 -.0296 -.0176 .0296

60.000 -.0166 -.0165 .1132

90.000 -.0363 -.0223

120.000 -.0173 -.0337 .1743

150.000 -.0096 -.0056 .0991

180.000 -.0029 -.0056 .0629

210.000 -.0340 .0144 -.0276

240.000 -.0750 .0009 -.0559

ALPHA(1) = -0.250 BETA(2) = .170

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6340
ρ_{H1}				.0644	-.1756	-.2187	-.2416	-.2071	-.1773	.1076	.0592	-.0653	-.1783	-.1974	-.0204
30.000	.4813	.4813	.4813	.0742	-.1808	-.2062	-.2321	-.2044	-.1569	.0325	-.1215	-.1594	-.1191	-.1033	-.0970
60.000	.5351	.5351	.5351	.1186	-.1330	-.1812	-.2262	-.1800	.0932	-.1889	-.3998	-.3107	-.1920	-.0290	-.0837
90.000	1.0340	1.0340	.8232	.1917	-.0810	-.1347	-.1850	-.1401	.6085	-.3748	-.0475	-.1581	-.0565	-.1244	-.1244
120.000	.7346	.7346	.8231	.2831	-.0122	-.0756	-.1344	-.0869	.1806	.3671	.0325	.3066	.1566	.0916	-.0033
150.000	.8220	.8220	.8220	.3322	.0290	-.0263	-.0966	-.0751	.0066	.2643	.1015	.1015	.0028	.0051	-.0751
180.000	.3864	.3864	.3864	.0553	-.0553	-.0081	-.0726	-.0571	-.0042	.4065	.4533	.3009	.0501	.0501	-.0144
210.000	.8736	.8736	.8736	.3951	.0666	-.0054	-.0673	-.0497	-.0113	.3367	.5022	.2663	.1089	-.0409	-.0074
270.000	1.0280	1.0280	1.0280												

H/LT .7480 .8530 .9280

 ρ_{H1}

.000 .0326 .0076 .0809

30.000 .0024 .0026 .0390

60.000 -.0144 .0093 .1623

90.000 -.0340 .0021

120.000 -.0756 -.0776 .1233

150.000 -.0923 -.0316 -.0180

180.000 -.1313 -.0870 -.0326



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 585

(R03713)

EXTERNAL TANK

ARCS7-716 1A14 CL-712-SIENES

ALPHAT (1) = -8.880 BETAT (3) = .170

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7480 .8530 .9280

PHI

100.000 -.0993 -.0126 -.0361
 100.000 -.0482 -.0274 -.1056

ALPHAT (1) = -8.870 BETAT (4) = 4.300

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0080 .0480 .1130 .1780 .1940 .2150 .2480 .2800 .3440 .3940 .4510 .5030 .5360 .6360

PHI

.0000 1.3540 .8412 .4046 .0664 -.1716 -.2173 -.2356 -.2018 -.2019 .0647 .0648 -.0736 -.1743 -.1568 -.0443
 30.000 .4474 .0949 -.1762 -.2163 -.2277 -.2036 -.1177 -.0232 -.0295 -.1294 -.1476 -.1405 -.0254
 60.000 .0666 -.1694 -.2193 -.2193 -.2002 .0246 -.0246 -.4037 -.1503 -.2072 -.1365 -.0267 -.0612
 90.000 .3294 .1160 -.1411 -.1959 -.2206 -.1622 .5779 -.3436 -.0742 -.1941 -.0536 -.1037
 120.000 .6262 .2010 -.0624 -.1357 -.1892 -.1716 .1667 .4159 .0756 .2376 .0986 .0363 .0450
 150.000 .7535 .2844 -.0177 -.0753 -.1426 -.1217 -.0066 .1446 .2332 .0102 -.0702 -.0464 -.1451
 180.000 .8543 .3465 .0322 -.0312 -.0963 -.0763 -.0577 .3232 .3466 .2594 .1247 .0526 -.0200
 270.000 1.1280 .3846 .0616 -.0055 -.0729 -.0522 .0046 .2982 .4206 .2580 .1130 .0251 -.0227
 .6036

X/LT .7480 .8530 .9280

PHI

.0000 .0103 .0011 .0288
 30.000 .0032 .0232 .0730
 60.000 -.0157 .0707 .2095
 90.000 -.0544 .0248
 120.000 -.1298 -.0722 .0466
 150.000 -.1394 -.0826 -.0956
 180.000 -.1600 -.1351 -.1177
 195.000 -.0977 -.0639 -.1087
 190.000 -.1030 -.0712 -.1376

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 OF POOR QUALITY

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCS7-716 1A14 Q1712-312N25

EXTERNAL TANK (083713)

ALPHAT(1) = -0.000 BETAT(1) = 0.200

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	0.000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PHI			.4362	.0671	-.1861	-.2260	-.2739	-.2407	-.1912	-.0455	-.0019	-.1094	-.1565	-.1248	-.0088
30.000	1.3130	.0055	.3634	.0275	-.2077	-.2439	-.2646	-.2293	-.0555	-.0022	-.0042	-.1265	-.1590	-.0537	.0203
60.000			.3624	.0199	-.2026	-.2412	-.2404	-.2273	.0260	-.0842	-.3345	-.0586	-.0156	-.0473	-.0242
90.000		.0133	.4355	.0442	-.1895	-.2307	-.2658	-.1846	.4127	-.1893	-.1893	-.1399	-.1945	.0360	-.0235
120.000			.5264	.1176	-.1418	-.1912	-.2337	-.2203	.1203	.3663	.1600	.1310	.0237	.0320	-.0776
135.000								-.1936		.0677		.1102		.0032	
150.000			.6503	.2186	-.0719	-.1226	-.1832	-.1695	.1564	.3102	.1922	-.0554	-.1184	-.0256	-.1476
165.000				.3041	-.0010	-.0635	-.1251	-.1137	-.0761	.2679	.2830	.2590	.1096	.0617	-.0171
180.000	1.3130	1.1760	.6321	.3639	.0494	-.0155	-.0849	-.0329	.0643	.2340	.3949	.1733	.0329	.0594	-.0312
270.000		1.2230							.6633						

X/LT .7480 .6330 .6260

PHI			.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078
30.000	.0493	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078	.0078
60.000	.0136	-.0173	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262	.0262
90.000	.0176	-.0012	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055	.2055
120.000	-.0409	-.0287													
135.000	-.1113	-.1294	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209	.0209
150.000	-.1180	-.0893	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020
165.000	-.1485	-.1366	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485	-.1485
180.000	-.0990	-.0668	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361	-.1361
270.000	-.1184	-.0599	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790	-.1790

ALPHAT(2) = -4.240 BETAT(2) = -0.030

SECTION (2) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	0.000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PHI			.5235	.1156	-.1324	-.1783	-.2317	-.2183	-.1586	.0466	.0221	-.0916	-.1402	-.1256	-.0257
30.000	1.3530	.9095	.6332	.2042	-.0643	-.1210	-.1803	-.1725	-.1405	-.0206	-.2428	-.2341	-.0790	-.0760	-.0923
60.000			.7684	.3115	.0180	-.0473	-.1181	-.0871	.2607	-.0470	-.3212	-.2681	-.1599	-.0958	.0237
90.000		1.8280	.6634	.3935	.0762	.0110	-.0807	-.0063	.6939	-.3596	-.3596	-.2576	-.1123	-.1434	-.0963
120.000			.6909	.4204	.0936	.0281	-.0465	-.0271	.4226	.1678	-.2154	.0366	.2440	.1900	.1076
135.000								-.0419		.2143		.1115		.1930	
150.000			.6944	.3635	.0670	.0051	-.0732	-.0545	-.0206	.2093	.1977	.0802	.1102	.0919	.0837
165.000			.3304	.0239	-.0341	-.1092	-.0940	-.0592	.2453	.4772	.4772	.3803	.1375	.0744	.0919
180.000	1.3530	1.1800	.7309	.2865	-.0117	-.0657	-.1293	-.1181	-.0682	.3525	.4408	.2657	-.0250	.0160	.0200
270.000		.8265							.4577						

X/LT .7480 .6330 .6260

PHI



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+712+312M25 EXTERNAL TANK (0837113)

ALPHAT (2) = -4.240 BETAT (1) = -8.030

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

M/LT .7400 .8530 .9200

PM1
.000 .0306 .0172 .0046
30.000 -.0002 -.0031 .0573
60.000 .0217 .0235 .2070
90.000 -.0108 .0289
120.000 .0432 .0222 .3066
150.000 .0571 .0709 .1529
180.000 .0169 .0772 .1970
190.000 .0192 .0875 .0407
195.000 -.0014 .0925 .0049

ALPHAT (2) = -4.220 BETAT (2) = -3.690

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

M/LT .0000 .0060 .0450 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5380

PM1
.000 1.4090 .9462 .5490 .1281 -.1262 -.1757 -.2295 -.1921 -.1501 .0263 .0866 -.1413 -.1813 -.0546
30.000 .6060 .1729 -.0969 -.1501 -.2069 -.1661 -.1448 .0522 -.1666 -.1600 .1225 -.0576 -.0717
60.000 .6825 .2309 -.0537 -.1102 -.1729 -.1409 .2074 -.0496 .3223 -.3049 -.0996 -.1330 .0026
90.000 1.1720 .7579 .2940 -.0129 -.0727 -.1353 -.0956 .6969 -.3677 -.2582 -.1280 -.1056 -.0429
120.000 .7996 .3343 .0177 -.0436 -.1102 .0854 .1001 .2112 -.1639 .0661 .1666 .0976 .0401
150.000 .6093 .3390 .0214 -.0361 -.1095 -.0927 -.0433 .2172 .2431 .0797 .0277 .0009 .0169
180.000 .3236 .0111 -.0517 -.1146 -.1033 -.0569 .3494 .4356 .2754 .0527 -.0155 .0109
190.000 1.4090 1.1990 .7619 .3042 -.0062 -.0637 -.1250 -.1029 -.0675 .3426 .4472 .2667 -.0702 -.0328 .0308
195.000 .9515 .4827

M/LT .7400 .8530 .9200

PM1
.000 .0159 .0004 .0143
30.000 -.0435 .0278 .0429
60.000 -.0070 .0069 .1615
90.000 -.0339 .0213
120.000 -.0322 .0660 .1914
150.000 -.0133 -.0229 .0835
180.000 -.0571 -.0136 .1047
190.000 -.0219 .0060 .0262
195.000 -.0139 -.0059 .0644

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 500

(083713)

EXTERNAL TANK

ARC97-716 1A14 Q1+T12+312N25

ALPHA(T) (2) = -4.250 BETAT (3) = .330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.5030	.5560	.6360
PHI															
30.000	1.4240	.9623	.9604	.1348	-.1265	-.1766	-.2286	-.1801	-.1748	.0850	.1302	-.0297	-.1326	-.1650	-.0402
60.000			.9064	.1308	-.1262	-.1749	-.2183	-.1728	-.1593	.0226	-.0597	-.1029	-.1674	-.0650	-.0655
90.000			.9472	.1292	-.1052	-.1496	-.2043	-.1613	.0267	-.0235	-.2678	-.3047	-.0330	-.0261	-.0879
120.000		1.0610	.8419	.1946	-.0772	-.1285	-.1837	-.1370	.6373	-.3678	-.3678	-.1843	-.1388	-.0819	-.0505
150.000			.6946	.2433	-.0548	-.1052	-.1602	-.1135	.0740	.2543	-.1115	.0331	.1189	.0404	-.0019
180.000								-.1171		.2248		.0431		.0471	
210.000			.7407	.2764	-.0288	-.0572	-.1486	-.1224	-.0491	.2646	.2424	.0318	-.0460	-.0329	-.0729
240.000			.5901	.2901	-.0166	-.0722	-.1577	-.1208	-.0577	.3340	.3625	.2326	.0256	.0035	-.0062
270.000	1.4240	1.2000	.7663	.3034	-.0091	-.0665	-.1281	-.1171	-.0321	.2576	.4123	.2356	.0720	-.1659	-.0349
		1.0660							.6062						

X/LT .7460 .8530 .9260

PHI

.0000	.0236	.0117	.0140
30.000	-.0149	-.0036	.0407
60.000	-.0182	.0134	.1665
90.000	-.0622	.0230	
120.000	-.0942	-.0939	.1213
150.000	-.0879	-.0666	-.0063
180.000	-.1318	-.0789	-.0329
210.000	-.0816	-.0279	-.0423
240.000	-.0746	-.0456	-.1109

ALPHA(T) (2) = -4.250 BETAT (4) = 4.190

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0490	.1130	.1760	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.5030	.5560	.6360
PHI															
30.000	1.3940	.9420	.9431	.1385	-.1211	-.1682	-.2192	-.1681	-.1511	.0227	.1139	-.0421	-.1267	-.1650	-.0631
60.000			.9139	.1233	-.1367	-.1687	-.2175	-.1618	-.1802	.0617	.0332	-.0636	-.1713	-.1174	-.0435
90.000			.9119	.1117	-.1363	-.1814	-.2052	-.1636	-.0471	.0164	-.2326	-.2645	-.0229	-.0265	-.0591
120.000		.9420	.9431	.1239	-.1228	-.1689	-.2125	-.1755	.6188	-.3577	-.3577	-.1680	-.1663	-.0737	-.0558
150.000			.9946	.1713	-.0983	-.1483	-.2029	-.1678	.1454	.3035	-.0368	.0568	.0746	-.0193	-.0253
180.000								-.1792		.0841		.0366		-.0273	
210.000			.6801	.2221	-.0688	-.1153	-.1811	-.1600	.0237	.2602	.2113	-.0464	-.1065	-.1136	-.1002
240.000			.2656	.2656	-.0303	-.0870	-.1534	-.1409	-.0999	.2840	.3009	.2128	.0710	-.1049	-.0083
270.000	1.3940	1.1730	.7483	.2917	-.0058	-.0678	-.1348	-.1158	-.0507	.2530	.3673	.2392	.0374	-.0369	-.0375
		1.1640							.6743						

X/LT .7460 .8530 .9260

PHI

.0000	.0236	.0117	.0140
30.000	-.0149	-.0036	.0407
60.000	-.0182	.0134	.1665
90.000	-.0622	.0230	
120.000	-.0942	-.0939	.1213
150.000	-.0879	-.0666	-.0063
180.000	-.1318	-.0789	-.0329
210.000	-.0816	-.0279	-.0423
240.000	-.0746	-.0456	-.1109



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083713)

EXTERNAL TANK

ARC97-716 1A14 Q1-T1S+312M5

ALPHAT (S) = -4.220 BETAT (A) = 4.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

N/LT .7480 .8530 .9280

PHI
 .000 .0082 .0020 .0180
 30.000 .0092 .0024 .0814
 60.000 -.0409 .0136 .1826
 90.000 -.0561 .0223
 120.000 -.1264 -.0541 .0847
 150.000 -.1298 -.0571 -.0567
 180.000 -.1713 -.0899 -.0591
 195.000 -.1032 -.0334 -.0760
 190.000 -.1042 -.0684 -.0596

ALPHAT (S) = -4.230 BETAT (S) = 8.100

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

N/LT .0000 .0080 .0480 .1130 .1780 .1940 .2150 .2480 .2900 .3440 .3940 .4310 .5050 .5360 .6390
 PHI
 1.3981 .8065 .9260 .4804 .4377 .4538 .4065 .3679 .7236
 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 30.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 60.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 90.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 120.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 150.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 180.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 195.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 190.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000
 270.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000

N/LT .7480 .8530 .9280

PHI
 .000 .0310 .0209 .0093
 30.000 .0307 .0060 .0377
 60.000 .0016 -.0569 .1483
 90.000 -.0363 .0075
 120.000 -.1195 .1307 .0867
 150.000 -.1059 .0597 .0590
 180.000 -.1472 .0967 .0867
 195.000 .0894 .0508 .1062
 190.000 -.1112 .0735 .1506

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03113)

EXTERNAL TANK

ARC97-716 1A14 CR+TIE+SIGNES

ALPHAT (3) = -.310 BETAT (1) = -0.050

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PHI															
.000	1.3750	1.0120	.6129	.1767	-.0963	-.1501	-.2092	-.2023	-.1469	.0813	.0628	-.0803	-.1181	-.1084	-.0566
30.000			.7307	.2743	-.0261	-.0849	-.1507	-.1441	-.1013	.0856	-.1809	-.1377	-.0671	-.0514	-.0776
60.000			.8287	.3571	-.0377	-.0241	-.1063	-.0782	-.3698	.0490	-.2403	-.1959	-.0547	-.0695	-.0304
90.000		1.2930	.8661	.3691	.0820	-.0034	-.0946	-.0247	.6669		-.3108	-.2678	-.2013	-.1344	-.0716
120.000			.8240	.3571	.0380	-.0265	-.1023	-.0782	.3704	.0672	-.2155	-.1453	-.1069	-.1894	-.1060
150.000			.7536	.2945	-.0125	-.0682	-.1461	-.1291	-.0812	.0933	.0601	.0093	-.0074	.0365	.0687
180.000			.2334	-.0369	-.1143	-.1826	-.1702	-.1289	.1155	.3676	.2664	.1133	.0119	.0489	
190.000	1.3750	1.0800	.6240	.1933	-.0913	-.1421	-.2010	-.1829	-.1232	.2672	.3984	.1566	-.0396	-.0714	.0532
270.000		.8432							.5730						

X/LT .7480 .8530 .9280

PHI

.000	.0079	-.0089	-.0006
30.000	-.0511	.0046	.0537
60.000	.0079	.0530	.1627
90.000	-.0449	-.0048	
120.000	.0489	.0532	.4180
150.000	.0711	.0677	.2410
180.000	.0228	.1001	.2582
190.000	.0214	.1159	.0591
270.000	.0288	.0772	.0043

ALPHAT (3) = -.270 BETAT (2) = -4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6360
PHI															
.000	1.4340	1.0560	.6449	.2036	-.0681	-.1194	-.1783	-.1672	-.1105	.0637	.1175	-.0213	-.0929	-.1110	-.0530
30.000			.7034	.2517	-.0331	-.0880	-.1492	-.1423	-.0976	.1026	-.1002	-.0969	-.0779	-.0234	-.0330
60.000			.7511	.2896	-.0036	-.0609	-.1350	-.1118	.1009	.0723	-.2229	-.2136	-.0227	-.0273	
90.000		1.2010	.7731	.3083	.0030	-.0519	-.1254	-.0917	.6561		-.3064	-.2922	-.1795	-.1611	-.0390
120.000			.7572	.2987	-.0036	-.0572	-.1304	-.1098	.0657	.1026	-.1634	-.1357	-.0990	.1800	.0411
150.000								-.1244		.1591		.0544		.0807	
180.000			.7271	.2679	-.0218	-.0784	-.1489	-.1310	-.0820	.1834	.1551	.0589	.0041	-.0470	.0546
190.000			.2482	-.0407	-.0963	-.1642	-.1473	-.1059	.2775	.4314	.3103	.0823	-.0683	-.0011	
270.000	1.4340	1.1030	.6628	.2264	-.0582	-.1072	-.1718	-.1426	-.1072	.2775	.3869	.2338	-.0648	-.0919	.0168
		.9830							.6003						

X/LT .7480 .8530 .9280

PHI



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083713)

ARCS7-716 1A14 Q1-718-SIGNS

EXTERNAL TANK

ALPHAT (3) = -.270 BETAT (2) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT .7480 .8550 .9280

PH1
 .0000 -.0094 -.0063 .0333
 30.0000 -.0227 -.0175 .0476
 60.0000 .0049 .0270 .1548
 90.0000 -.0364 .0235 .2667
 120.0000 -.0031 -.0070 .2667
 150.0000 .0105 .0360 .1566
 180.0000 -.0266 .0516 .2051
 210.0000 -.0230 .0769 .0803
 240.0000 -.0170 .0643 .0120

ALPHAT (3) = -.280 BETAT (3) = -.150

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT .0000 .0060 .0480 .1130 .1780 .1940 .2130 .2420 .2900 .3440 .3940 .4310 .5050 .6360
 PH1
 .0000 1.4380 1.0730 .6374 .2148 -.0993 -.1259 -.1834
 30.0000 .6997 .2144 -.0990 -.1252 -.1797 .1444 .1366
 60.0000 .6644 .2171 .0674 .1193 .1836 .1318 .1292
 90.0000 .6700 .2207 .0680 .1259 .1813 .1275 .6414
 120.0000 .6717 .2230 .0677 .1199 .1836 .1329 .0113
 150.0000 .6766 .2264 .0660 .1192 .1793 .1364 .1276
 180.0000 .6733 .2245 .0650 .1165 .1783 .1363 .1175
 210.0000 .6733 .2225 .0607 .1129 .1766 .1613 .0969
 240.0000 1.0710 .6367

R/LT .7480 .8530 .9280

PH1
 .0000 .0009 .0041 .0262
 30.0000 -.0043 .0011 .0636
 60.0000 -.0462 .0074 .1372
 90.0000 -.0542 .0221 .2071
 120.0000 -.0559 -.0324 .2071
 150.0000 -.0335 .0080 .0917
 180.0000 -.1026 .0066 .0817
 210.0000 -.0464 .0171 .0046
 240.0000 -.0314 .0375 .0160

ARCS7-716 1A14 Q1+712+312N25 (R83713)

ALPHA7 (3) = -.280 BETAT (4) = 4.190

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

R/L7	.0000	.0000	.0490	.1130	.1780	.1940	.2190	.2420	.2900	.3440	.3940	.4310	.5050	.5980	.6380
PW1															
.0000	1.4190	1.0490	.6435	.2039	-.0636	-.1155	-.1762	-.1663	-.1115	.0675	.1264	-.0146	-.0950	-.1265	-.0576
30.0000			.9969	.1663	-.0913	-.1414	-.1977	-.1666	-.1176	.0522	.0269	-.0367	-.1295	-.1077	-.0620
60.0000			.5706	.1367	-.1109	-.1353	-.1956	-.1650	.0292	.1371	-.1349	-.1965	-.0213	-.0196	-.0470
90.0000		.0600	.9016	.1340	-.1216	-.1678	-.1829	-.1669	.6291		-.3034	-.2924	-.1653	-.2210	-.0573
120.0000			.5676	.1460	-.1166	-.1636	-.2006	-.1723	.1102	.1747	-.0427	-.1255	.0390	-.0310	-.0390
150.0000								-.1763		.1271		.0189		-.0760	
180.0000			.9979	.1673	-.1012	-.1503	-.2126	-.1619	-.1066	.2270	.1674	-.0441	-.1807	-.1983	-.0656
210.0000				.1952	-.0640	-.1314	-.1982	-.1816	-.1299	.2586	.2613	.1740	.0256	-.1523	.0100
240.0000	1.4190	1.0730	.6502	.2174	-.0676	-.1198	-.1659	-.1640	-.0740	.1927	.3242	.2276	.0313	-.1406	.0030
270.0000		1.1790							.6648						

R/L7 .7480 .6530 .8260

PW1

.0000	-.0226	-.0032	.0246
30.0000	-.0106	.0021	.1079
60.0000	-.0003	.0148	.1679
90.0000	-.0496	-.0106	
120.0000	-.0603	.0135	.1362
150.0000	-.0623	.0235	.0105
180.0000	-.1333	.0056	.0151
210.0000	-.0739	.0191	-.0229
240.0000	-.0633	-.0042	-.0006

ALPHA7 (3) = -.300 BETAT (5) = 8.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

R/L7	.0000	.0000	.0490	.1130	.1780	.1940	.2190	.2420	.2900	.3440	.3940	.4310	.5050	.5980	.6380
PW1															
.0000	1.3616	1.0170	.6196	.1639	-.0720	-.1300	-.1939	-.1805	-.1517	.0217	.0667	-.0716	-.1061	-.1131	-.0513
30.0000			.9251	.1110	-.1346	-.1779	-.2316	-.1964	-.1119	.0697	.0040	-.0653	-.1571	-.0950	.0197
60.0000			.4710	.0710	-.1749	-.2146	-.1981	-.1971	-.0247	.1497	.1290	-.1574	-.0209	.0290	.0107
90.0000		.0333	.4966	.0606	-.1763	-.2132	-.2091	-.2077	.5766		-.3547	-.1145	.0334	.0007	.0081
120.0000			.4737	.0764	-.1673	-.2092	-.2322	-.2260	.0765	.2164	-.0390	-.0773	.0170	-.0296	.0021
150.0000								-.2260		-.0317		-.0159		-.0780	
180.0000			.9251	.1120	-.1436	-.1903	-.2449	-.2200	.0617	.2174	.0977	-.1074	-.2177	-.1430	-.0760
210.0000				.1566	-.1116	-.1619	-.2200	-.2077	-.1120	.1710	.2064	.1645	-.0011	-.0753	.0196
240.0000	1.3616	.9766	.6276	.1936	-.0807	-.1363	-.1964	-.1736	-.0077	.1157	.2691	.1437	-.0407	-.1047	-.0326
270.0000		1.2260							.6901						

R/L7 .7480 .6530 .8260

PW1



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R05713)

EXTERNAL TANK

ARC07-716 1A14 C0+712+812H5

ALPHA(3) = -.300 BETAT (5) = 8.200

SECTION (3) EXTERNAL TANK DEPENDENT VARIABLE CP

X/L7 .7460 .0530 .0280

PHI	0.000	.0237	.0012	.0179
30.000	.0401	.0042	.0253	
60.000	.0164	-.0025	.1725	
90.000	-.0490	.0103		
120.000	-.0720	-.0756	.1401	
150.000	-.0540	-.0215	-.0132	
180.000	-.1127	-.0516	-.0349	
210.000	-.0209	-.0123	-.0576	
240.000	-.0900	-.0329	-.1030	

ALPHA(4) = 3.800 BETAT (1) = -8.120

SECTION (3) EXTERNAL TANK DEPENDENT VARIABLE CP

PHI	0.000	.0000	.0080	.0490	.1120	.1760	.1940	.0190	.0400	.0900	.0400	.3940	.4910	.0030	.0500	.0300
30.000	1.3620	1.1230	.7312	.2737	-.0199	-.0772	-.1435	-.1293	-.0943	.0936	.0906	-.0238	-.0529	-.0506	-.0103	
60.000			.8480	.3769	.0956	-.0089	-.0810	-.0666	-.0415	.1569	-.0688	-.0021	-.0241	.0094	-.0013	
90.000			.8981	.4206	.0911	.0260	-.0518	-.0237	.4269	.1761	-.1669	-.1256	.0130	.0475	.0375	
120.000		1.2600	.6634	.3922	.0691	.0047	-.0663	-.0082	.6676	-.0922	-.2568	-.1642	-.0035	-.0153	-.0857	
150.000			.7569	.3048	.0024	-.0556	-.1217	-.0927	.2690	-.0321	-.2451	-.2811	-.0059	.1232	.1293	
180.000			.6510	.2133	-.0664	-.1199	-.1801	-.1626	-.1172	-.0184	.0691	-.0423	-.0397	-.0332	.3790	
210.000			.1495	.1495	-.1142	-.1644	-.2144	-.1983	-.1490	.0790	.2185	.2654	.1346	-.0149	.0664	
240.000	1.3620	.9422	.5251	.1123	-.1395	-.1830	-.2253	-.1877	-.1549	.1801	.3434	.2167	-.0909	-.0630	.1566	
270.000		.8280							.5071							

X/L7 .7460 .0530 .0280

PHI	0.000	.0110	.0099	.0361
30.000	.0139	.0447	.0766	
60.000	.0195	.0768	.1243	
90.000	-.1049	-.1313		
120.000	.1106	.1230	.3430	
150.000	.1351	.1890	.3702	
180.000	.1004	.1980	.5974	
210.000	.0971	.1914	.1486	
240.000	.0963	.1961	.0908	

ORIGINAL PAGE IS
OF POOR QUALITY

0803131

EXTERNAL TANK

ARC97-716 1A14 CL+T12+SIZE3

ALPHAT (4) = 3.010 BETAT (2) = -4.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0480	.1130	.1780	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI			.7512	.2980	-.0072	-.0867	-.1355	-.1801	-.0715	.0562	.1510	.0267	-.0922	-.0704	-.0223
.000	1.4130	1.1830	.7912	.2980	-.0072	-.0867	-.1355	-.1801	-.0715	.0562	.1510	.0267	-.0922	-.0704	-.0223
30.000			.7990	.3363	.0213	-.0401	-.1096	-.0933	-.0474	.1112	-.0065	-.0502	-.0363	.0201	-.0104
60.000			.8031	.3363	.0230	-.0376	-.1096	-.0761	.0933	.1875	-.1918	-.1566	.0499	.0413	.0029
90.000		1.1800	.7633	.3037	-.0056	-.0617	-.1293	-.0881	.6576	-.2730	-.1753	-.0031	-.0402	-.0986	
120.000			.6653	.2426	-.0504	-.1049	-.1643	-.1379	.2196	-.0350	-.2355	-.3002	-.0207	.0620	.0947
150.000								-.1663		.0257		-.1278		-.0090	
180.000			.6226	.1913	-.0667	-.1362	-.1937	-.1766	-.1306	.0979	.1043	.0065	-.0935	-.1208	.0195
210.000			.1373	-.1096	-.1608	-.2136	-.1855	-.1381	.1808	.3234	.2660	.0545	-.0996	-.0142	
240.000	1.4130	.9760	.9342	.1366	-.1245	-.1707	-.2202	-.1772	-.1464	.1964	.3622	.2418	-.0701	-.1262	.0135
270.000		.9512							.5893						

X/LT .7480 .8530 .9280

PHI

.000	-.0180	-.0130	.0386												
30.000	-.0094	.0063	.0651												
60.000	-.0017	.0352	.0823												
90.000	-.0090	-.1056													
120.000	-.0348	.0568	.4164												
150.000	.0930	.1102	.2483												
180.000	.0183	.1832	.4673												
210.000	.0242	.1531	.1119												
240.000	.0109	.1597	.0963												

ALPHAT (4) = 3.080 BETAT (3) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0480	.1130	.1780	.1940	.2130	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI			.7600	.2935	-.0091	-.0677	-.1363	-.1241	-.0675	.0226	.1913	.0347	-.0455	-.0764	-.0219
.000	1.4340	1.1870	.7600	.2935	-.0091	-.0677	-.1363	-.1241	-.0675	.0226	.1913	.0347	-.0455	-.0764	-.0219
30.000			.7493	.2798	-.0191	-.0760	-.1449	-.1271	-.0679	.1189	.0554	.0013	-.0479	-.0509	-.0173
60.000			.7078	.2486	-.0474	-.1013	-.1663	-.1159	.0844	.2148	-.1637	-.1501	.0179	-.0424	-.0186
90.000		1.0800	.6579	.2034	-.0760	-.1340	-.1880	-.1374	.6402	-.2660	-.2660	-.2108	.0212	.0116	-.0321
120.000			.6080	.1682	-.1060	-.1594	-.2102	-.1645	-.0132	-.0136	-.2033	-.2967	-.0761	.0316	-.0040
150.000								-.1731		.0843		-.0216		-.0452	
180.000			.5635	.1398	-.1213	-.1689	-.2205	-.1778	-.1524	.1800	.1597	.0126	-.1315	-.1863	.0000
210.000			.1364	-.1283	-.1732	-.2248	-.1864	-.1631	.2917	.2966	.2276	.0268	-.1036	-.0156	
240.000	1.4340	.8817	.9844	.1335	-.1256	-.1746	-.2254	-.1963	-.0900	.1707	.3437	.2459	.0310	-.2066	-.0276
270.000		.10830							.6362						

X/LT .7480 .8530 .9280

PHI

.000	-.0180	-.0130	.0386												
30.000	-.0094	.0063	.0651												
60.000	-.0017	.0352	.0823												
90.000	-.0090	-.1056													
120.000	-.0348	.0568	.4164												
150.000	.0930	.1102	.2483												
180.000	.0183	.1832	.4673												
210.000	.0242	.1531	.1119												
240.000	.0109	.1597	.0963												



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0837133

EXTERNAL TANK

ARC87-716 1A14 CL+712+812N23

ALPHA7 (4) = 3.920 BETAT (3) = -.170

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/L7 .7480 .8530 .9280

PH1
 .000 -.0116 -.0042 .0274
 30.000 -.0096 .0161 .0742
 60.000 -.0172 .0367 .1103
 90.000 -.0808 -.0172 .2491
 120.000 -.0123 .0410 .2491
 135.000 .0163 .0666 .1323
 150.000 -.0213 .0679 .1610
 165.000 -.0009 .0972 .0476
 180.000 .0091 .0943 .0453

ALPHA7 (4) = 3.930 BETAT (4) = 4.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/L7 .0000 .0060 .0490 .1130 .1780 .1940 .2190 .2420 .2900 .3440 .3940 .4310 .5090 .5960 .6360
 PH1
 .000 1.4070 1.1830 .7493 .2910 .0036 -.0590 -.1249 -.1126 -.0673 .0609 .1710 .0367 -.0435 -.0666
 30.000 .6767 .2317 -.0487 -.0990 .1633 -.1437 -.0759 .1159 .0602 -.0128 -.0765 -.0633 -.0307
 60.000 .6018 .1696 -.0977 -.1467 -.1964 -.1546 .0591 .2566 -.1402 .0514 .0159 .0241 .0363
 90.000 .9466 .1269 .1268 -.1745 -.2076 -.1813 .5966 -.2634 -.1766 .0463 .0181 .0479
 120.000 .5089 .1049 -.1431 -.1861 -.2129 -.1852 -.0272 .0355 -.1327 .0274 .0236 .0182
 135.000 .9186 .0903 -.1408 -.1848 .2333 .1431 .0361 .1703 .1397 .0590 .0161 .0253 .0231
 150.000 .1179 .1179 .1301 .1802 .2317 .2122 .0871 .2062 .2346 .1308 .0089 .0191 .0036
 165.000 .5439 .1303 .1202 .1739 .2248 .2017 .0472 .1322 .2637 .2235 .0235 .0179 .0217
 180.000 1.1700 .9379 .5439 .1303 .1202 .1739 .2248 .2017 .0472 .1322 .2637 .2235 .0235 .0179 .0217
 270.000 1.1700 .9379 .5439 .1303 .1202 .1739 .2248 .2017 .0472 .1322 .2637 .2235 .0235 .0179 .0217

X/L7 .7480 .8530 .9280

PH1
 .000 -.0228 -.0025 .0311
 30.000 -.0153 .0132 .0812
 60.000 .0059 .0280 .1673
 90.000 -.0135 .0481 .1933
 120.000 -.0163 .0937 .1933
 135.000 .0723 .1030 .0623
 150.000 .0319 .0683 .0683
 165.000 .0131 .0994 .0083
 180.000 .0009 .0921 .0255

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC07-716 1A14 CR-712+312+023

EXTERNAL TANK

(083713)

ALPHA(1,4) = 3.950 BETAT(1,5) = 0.200

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

M/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6380
P01															
.000	1.3630	1.1250	.7270	.2826	-.0197	-.0772	-.1304	-.1191	-.0911	.0719	.0921	-.0166	-.0475	-.0656	-.0441
30.000			.8019	.1815	-.0941	-.1489	-.2074	-.1774	-.1065	.1025	.0456	-.0343	-.1000	-.0686	-.0394
60.000			.9087	.1035	-.1516	-.1932	-.2114	-.2046	.0625	.2835	-.0544	-.0669	-.0003	.0324	.0182
90.000		.8410	.4567	.0644	-.1711	-.2107	-.1972	.5056	.5056	1.2471	1.2471	-.1317	.1116	.0475	.0331
120.000			.4356	.0571	-.1763	-.2160	-.2084	-.2137	.0276	.0558	-.0848	-.1620	.0492	-.0225	.0480
150.000			.4538	.0677	-.1674	-.2091	-.2591	-.2275	.0733	.1799	.1007	-.0713	-.2320	-.1487	-.0484
180.000	1.3930	.8982	.9210	.0967	-.1526	-.1935	-.2493	.0211	.1525	.2033	.2033	.1932	-.0174	.1341	-.0537
270.000	1.8730			.1208	-.1324	-.1797	-.2357	-.2299	-.0165	.1010	.2102	.1998	-.0400	-.1073	-.0348
								.6992							

M/LT .7480 .6530 .5280

P01

.000	.0212	.0103	.0427
30.000	.0334	.0206	.0447
60.000	.0291	.0182	.1763
90.000	.0010	.0079	
120.000	-.0023	.0142	.1659
150.000	.0136	.0576	.0338
180.000	-.0812	.0271	.0182
270.000	.0284	.0469	-.0182
	-.0037	.0510	-.0653

ALPHA(1,5) = 0.180 BETAT(1,5) = -0.840

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

M/LT	.0000	.0000	.0490	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6380
P01															
.000	1.3120	1.2200	.8331	.3719	.0546	-.0111	-.0861	-.0668	-.0437	.1083	.1964	.0410	.0075	-.0059	.0214
30.000			.9474	.4665	.1263	.0569	-.0210	-.0056	.0345	.2363	.0175	-.0466	.0291	.0529	.0549
60.000			.9491	.4662	.1269	.0612	-.0197	.0184	.4181	.2650	-.1333	-.0491	.0222	.0663	.0693
90.000	1.2360		.8303	.3016	.0596	-.0064	-.0737	-.0166	.6721	.2425	-.2425	-.1565	-.0732	-.0128	.0906
120.000			.6742	.2418	-.0492	-.1060	-.1615	.1428	.1428	-.2056	-.2576	-.2130	-.0950	.0263	.0971
150.000			.5422	.1276	-.1305	.1776	-.1967	-.1790	-.0399	-.1310	-.2704	-.2704	-.0950	.0734	
180.000			.0476	.0476	-.1730	.1255	.1793	-.1629	.0462	-.0891	-.0122	-.1284	-.0518	.0023	.1191
270.000	1.3180	.8476	.4176	.0364	-.1899	-.2103	-.1839	-.1673	-.0811	.0462	.0706	.1699	.0493	-.0181	.0971
		.7655							.5093	.0531	.1764	.0996	-.0881	-.1155	.0883

M/LT .7480 .6530 .5280

P01



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(003713)

EXTERNAL TANK

ARC07-716 1A14 Q1+T12+512M25

ALPHAT (3) = 0.120 BETAT (1) = -0.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

Z/LT 7.480 .8530 .9280

PHI
 .000 .0497 .0137 .0458
 30.000 .0883 .0806 .1366
 60.000 .0798 .1421 .2304
 90.000 .1189 .2095 .4100
 120.000 .1194 .1813 .4100
 135.000 .1362 .2248 .3501
 150.000 .1282 .1978 .4179
 165.000 .1302 .1948 .1500
 180.000 .1232 .1619 .1027

ALPHAT (3) = 0.110 BETAT (2) = -4.150

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

Z/LT .0000 .0000 .0490 .1130 .1780 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5030 .5580 .6360
 PH1
 .000 1.3800 1.2870 .8572 .3908 .0616 -.0039 -.0768 -.0619 -.0345 .0293 .1930 .0037 -.0099 .0122
 30.000 .0951 .4224 .0847 .0166 -.0601 -.0396 .0174 .2136 .0452 .0077 .0077 .0286 .0280 .0338
 60.000 .8498 .3812 .0512 -.0113 -.0617 -.0417 .2369 .2834 -.1471 -.0824 .0230 .0798 .0482
 90.000 1.1340 .7379 .2863 -.0220 -.0788 -.1393 .0346 .6346 .2963 .1647 .0175 .0316 .0429
 120.000 .8075 .1814 -.1015 -.1320 .2024 .1743 .1067 .1067 .2072 .2660 .2477 .0179 .0431
 135.000 .5237 .1110 -.1480 -.1855 .2361 .2120 .1607 .1607 .0614 .0446 .1032 .1384 .1039 .0393
 150.000 .0740 .0740 .1714 .2139 .2326 .2113 .1534 .1459 .2366 .2349 .0134 .0912 .0198
 165.000 .4462 .0586 .1814 .2205 .2437 .2136 .1165 .1618 .2953 .2037 .0663 .1531 .0094
 180.000 .8075 .9195

Z/LT 7.480 .8530 .9280

PH1
 .000 .0108 -.0054 .0289
 30.000 .0332 .0306 .0931
 60.000 .0393 .0768 .1474
 90.000 .0482 .1198 .3378
 120.000 .0355 .1104 .3378
 135.000 .0708 .1707 .2439
 150.000 .0469 .1717 .2822
 165.000 .0728 .1990 .1228
 180.000 .0853 .1837 .1171

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR-112-512M25

EXTERNAL TANK

0031131

ALPHAT(3) = 0.110 BETAT(3) = -.210

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI															
.000	1.3970	1.2940	.0713	.3912	.0829	.0001	-.0764	-.0631	-.0379	.0933	.2236	.1005	.0111	-.0161	.0136
30.000			.0379	.3568	.0368	-.0253	-.0975	-.0790	-.0207	.2014	.0993	.0407	.0085	.0015	.0113
60.000			.7469	.2629	-.0250	-.0761	-.1456	-.0976	.1692	.3234	-.1132	-.0364	.0244	.0810	.0103
90.000		1.0390	.6329	.1685	-.0908	-.1490	-.1913	-.1496	.9961		-.2573	.2215	.0032	-.0037	-.0120
120.000			.9341	.1130	-.1423	-.1944	-.2364	-.1937	.0910	-.1863	-.2565	-.2531	-.0327	.0103	.0432
150.000								-.2069		-.0546		-.2142		-.0368	
180.000			.4642	.0799	-.1697	-.2111	-.2523	-.2112	-.1404	.1146	.0870	-.0776	-.1514	-.1594	.0332
210.000			.0649	.0649	-.1767	-.2208	-.2320	-.2116	-.1166	.1914	.2712	.1966	.0015	-.1168	.0246
240.000			.4508	.0806	-.1780	-.2205	-.2573	-.2169	-.0214	.1418	.2968	.2039	-.0065	-.2273	.0362
270.000		1.0300													

X/LT .7460 .8330 .9280

PHI

.000	.0189	.0043	.0382
30.000	.0099	.0135	.0785
60.000	.0103	.0965	.1895
90.000	.0249	.1182	
120.000	.0368	.0931	.2256
150.000	.0453	.1309	.1505
180.000	.0173	.1163	.1608
210.000	.0562	.1435	.0808
240.000	.0725	.1419	.0515

ALPHAT(3) = 0.140 BETAT(4) = 4.180

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5580	.6380
PHI															
.000	1.3980	1.2960	.8593	.3681	.0362	-.0050	-.0694	-.0559	-.0264	.0304	.2042	.0877	.0073	-.0068	.0078
30.000			.7524	.2990	-.0070	-.0668	-.1336	-.1105	-.0767	.1760	.1275	.0256	-.0189	-.0122	-.0138
60.000			.8817	.1882	-.0886	-.1596	-.1926	-.1575	.1109	.3551	-.0610	.0117	.0419	.0170	.0131
90.000		.8998	.3140	.1028	-.1488	-.1957	-.2263	-.2038	.5336		-.2651	-.2257	-.0717	.0208	-.0184
120.000			.4468	.0488	-.1790	-.2221	-.2376	-.2147	-.0023	-.1497	-.2598	-.2486	-.0474	-.0165	.0430
150.000								-.2151		.0882		-.0893		-.0952	
180.000			.4273	.0332	-.1881	-.2278	-.2369	-.2170	-.0334	.1467	.1125	-.0630	-.2084	-.1985	.0032
210.000			.0436	.0436	-.1874	-.2266	-.2637	-.2303	.0081	.1929	.1916	.0963	-.0594	1.1740	.0391
240.000			.4394	.0495	-.1800	-.2228	-.2607	-.2415	-.0337	.1125	.2707	.2025	-.0020	-.1850	.0101
270.000		1.1340													

X/LT .7460 .8330 .9280

PHI

.000			
30.000			
60.000			
90.000			
120.000			
150.000			
180.000			
210.000			
240.000			
270.000			



DATE 87 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03713)

EXTERNAL TANK

ARC57-716 1A14 C1+712+312N25

ALPHAT (S) = 0.140 BETAT (A) = 4.180

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	7460	8530	9280
PHI			
.000	-.0008	-.0036	.0357
30.000	-.0221	-.0007	.0820
60.000	-.0105	.0470	.1379
90.000	.0254	.1296	
120.000	.0490	.1446	.1932
150.000	.0563	.1492	.0853
180.000	.0244	.1209	.0933
210.000	.0708	.1419	.0044
240.000	.0007	.1368	-.0349

ALPHAT (S) = 0.150 BETAT (S) = 8.300

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0000	.0060	.0480	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PHI															
.000	1.3230	1.2250	.8351	.3766	.0508	-.0167	-.0935	-.0731	-.0420	.0850	.0866	.0410	.0088	-.0100	-.0029
30.000			.6998	.2594	-.0561	-.1162	-.1807	-.1701	-.1188	.1696	.1410	.0145	-.0266	-.0210	.0676
60.000			.9210	.1117	-.1526	-.1964	-.2296	-.2042	.1185	.3110	.0209	.0520	.0191	-.0361	.0260
90.000		.7985	.4248	.0359	-.1954	-.2536	-.2081	-.2141	.4418	-.2436	-.2436	-.1971	-.0312	.0370	.0397
120.000			.3632	.0184	-.2068	-.2435	-.2105	-.2001	-.0625	-.0816	-.2350	-.1937	.0142	-.0217	.0613
150.000								-.2204		.0940		-.0648		-.0136	
180.000			.3805	.0061	-.2094	-.2482	-.2775	-.2095	.0336	.1430	.0909	-.1142	-.2266	-.0547	.0058
210.000				.0220	-.2044	-.2418	-.2809	-.2594	.0325	.1198	.1855	.1186	-.0604	-.0361	.0410
240.000	1.3230	.7266	.4218	.0371	-.1904	-.2341	-.2760	-.2804	-.0466	.0743	.1294	.0987	-.0925	-.0630	.0094
270.000		1.2360							.6780						

X/LT	7460	8530	9280
PHI			
.000	.0323	.0082	.0392
30.000	.0114	-.0008	.0335
60.000	.0237	.0376	.1806
90.000	.0074	.0658	
120.000	.0393	.0711	.1466
150.000	.0399	.1067	.0405
180.000	.0355	.0741	.0146
210.000	.0315	.1203	.0062
240.000	.0442	.1220	-.0307

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(R83714) (18 JAN 74)

EXTERNAL TANK

ARCS7-716 1A14 Q1+718+512N25

REFERENCE DATA

SRF = 2.4210 50.FT. XMRP = 29.5600 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

ALPHAT(1) = -9.400 BETAT(1) = -7.950

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0460	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PM1															
.000	1.4940	.6571	.3971	.0956	-.0675	-.1157	-.1466	-.1369	-.1309	-.0810	-.0356	-.0453	-.0994	-.1009	-.0905
30.000			.4975	.1599	-.0432	-.0772	-.1169	-.1098	-.1091	-.0271	-.1549	-.1989	-.1431	-.0765	-.0817
60.000			.6562	.2746	.0340	-.0079	-.0479	-.0501	.0220	.0190	-.2430	-.1938	-.0987	-.1097	-.0766
90.000		1.1920	.8300	.4034	.1209	.0722	.0166	.0176	.4394		-.2245	-.1464	.0462	.0912	-.0136
120.000			.8375	.4695	.1799	.1226	.0652	.0649	.1139	.5130	.0310	.0958	.1831	.3162	.2034
150.000							.0722		.1866			.2462		.2032	
180.000			.9542	.4939	.1836	.1290	.0625	.0703	.0771	.2705	.3996	.2640	.1948	.1392	.1579
210.000			.4550	.1569	.1023	.0433	.0448	.0466	.2071	.3574	.5122	.3635	.1660	.1369	
240.000	1.4940	1.2490	.6483	.4055	.1265	.0739	.0229	.0220	.0192	.0363	.4152	.3706	.3361	.1097	.0364
270.000		.6491						.1427							

X/LT .7460 .8530 .9260

PM1

.000	-.0959	-.0361	-.0178
30.000	-.1073	-.0979	-.0949
60.000	-.0250	-.0621	.0357
90.000	-.0525	-.0516	
120.000	.1484	.0526	.3096
150.000	.1533	.1221	.1966
180.000	.1321	.1364	.1172
210.000	.1061	.1151	.0864
240.000	.1032	.1013	.0319

ALPHAT(1) = -9.360 BETAT(2) = -3.920

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0060	.0460	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PM1															
.000	1.5240	.6785	.4060	.0951	-.0606	-.1100	-.1402	-.1296	-.1026	-.0059	.1161	.0165	-.0620	-.1023	-.0943
30.000			.4686	.1386	-.0580	-.0911	-.1279	-.1213	-.1026	-.0419	-.1216	-.1799	-.1408	-.0369	-.0345
60.000			.5793	.2124	-.0095	-.0494	-.0841	-.0867	-.0769	-.0031	-.2540	-.2240	-.1377	-.1084	-.0907
90.000		1.0750	.7212	.3196	.0584	.0113	-.0371	.5974	.5974		-.2315	-.1557	.0409	.0356	-.0350
120.000			.6422	.4112	.1235	.0663	.0135	.0166	.5644	.5644	.0394	.0919	.1314	.2401	.1360
150.000						.0263		.0263	.0873		.2903		.1423		
180.000			.8034	.4456	.1513	.0960	.0339	.0395	.0487	.2461	.3284	.2495	.1629	.0998	.0888



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83714)

EXTERNAL TANK

ARC97-716 1A14 Q1+712+SIGNES

ALPHAT(1) = -0.360 BETAT(2) = -3.920

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT	.0000	.0080	.0490	.1130	.1760	.1940	.8150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PHI															
105.000				.4428	.1308	.0965	.0348	.0349	.0369	.2146	.2928	.4803	.2481	.1487	.0700
180.000	1.3240	1.2910	.8636	.4241	.1363	.0628	.0276	.0220	.0370	.0455	.3902	.3576	.2937	.0837	.0401
270.000		.7671							.2361						

N/LT .7480 .6530 .9280

PHI															
.000	-.0577	-.0068	-.0042												
30.000	-.0467	-.0802	-.0392												
60.000	-.0114	-.0402	.0230												
90.000	-.0220	-.0344													
120.000	.0750	.0046	.1887												
135.000	.0622	.0499	.1292												
150.000	.0778	.0572	.0347												
165.000	.0691	.0566	.0315												
180.000	.0854	.0386	.0147												

ALPHAT(1) = -0.360 BETAT(3) = .130

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT	.0000	.0080	.0490	.1130	.1760	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5560	.6360
PHI															
.000	1.9320	.7029	.4280	.1031	-.0778	-.1086	-.1357	-.1136	-.1016	.0212	.1128	.0259	-.0278	-.0807	-.0803
30.000			.4440	.1160	-.0698	-.1018	-.1344	-.1204	-.0979	-.0445	-.0661	-.0977	-.1097	-.0804	-.0548
60.000			.3064	.1572	-.0459	-.0768	-.1054	-.1100	-.0240	-.0120	-.2448	-.2247	-.1655	-.0516	-.0509
90.000		.9513	.6128	.2346	.0002	-.0393	-.0788	-.0805	.3064	.4374	.0765	-.2187	.0312	.0239	-.0789
120.000			.7321	.3282	.0614	.0126	-.0348	-.0329	-.0136	.0494	.0765	.1031	.0863	.1834	.0863
135.000			.6273	.3919	.1062	.0596	-.0046	.0067	.0123	.2374	.2576	.2335	.1109	.0693	.0496
150.000				.4261	.1334	.0751	.0149	.0178	.0273	.2285	.3595	.3086	.2367	.1176	.0792
165.000	1.9320	1.2630	.8787	.4337	.1396	.0822	.0227	.0147	.0353	.1435	.3786	.2874	.2401	.1351	.0401
270.000		.9239							.3044						

N/LT .7480 .6530 .9280

PHI															
.000	-.0317	.0027	.0061												
30.000	-.0347	-.0166	-.0063												
60.000	-.0407	-.0243	.0661												
90.000	.0035	-.0418													
120.000	.0438	-.0329	.1210												
135.000	.0637	.0095	.0311												
150.000	.0197	-.0044	-.0248												

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ARC97-716 1A14 Q1712-812M25 (R83714)

ALPHAT (1) = -0.300 BETAT (3) = .150

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7460 .6530 .0200

PHI

100.000 .0087 .0569 .0078
 180.000 .0523 .0204 -.0221

ALPHAT (1) = -0.400 BETAT (4) = 4.130

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0490 .1130 .1780 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5580 .6380

PHI

.0000 1.5310 .6044 .4112 .0946 -.0841 -.1130 -.1434 -.1283 -.1080 .0234 .0076 -.0417 -.0964 -.1021
 30.000 .4027 .0663 -.0909 -.1194 -.1491 -.1206 -.1034 -.1036 -.1034 -.0364 -.0459 -.0247 -.0855 -.1136 -.1037
 60.000 .4210 .1017 -.0833 -.1116 -.1244 -.1266 -.0146 -.0146 -.0054 -.2341 -.2023 -.1610 -.1073 -.0249
 90.000 .7968 .4891 .1495 -.0497 -.0833 -.1107 -.1099 .2326 -.2164 -.1049 .0382 -.0169 -.0296
 120.000 .6015 .2337 .0018 -.0369 -.0729 -.0741 .0042 .1764 .1397 .1368 .1465 .1211 .0323
 150.000 .7239 .3184 .0570 .0109 -.0366 -.0325 -.0204 .2316 .2508 .1026 .0382 -.0026 -.0087
 180.000 .8613 .3910 .1031 .0509 -.0001 -.0023 .0117 .2712 .3117 .2505 .1912 .1311 .0298
 210.000 1.5310 1.2410 .4154 .1301 .0747 .0214 .0158 .1676 .3462 .2422 .1615 .1355 .0676
 270.000 1.0630 .3601

X/LT .7460 .6530 .0200

PHI

.0000 -.0371 -.0076 -.0069
 30.000 -.0261 -.0018 -.0030
 60.000 -.0247 -.0218 .0810
 90.000 -.0261 -.0559
 120.000 .0128 -.0602 .0576
 150.000 .0018 -.0354 -.0264
 180.000 -.0269 -.0612 -.0536
 210.000 .0447 .0026 -.0354
 270.000 .0327 -.0006 -.0507



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03T114)

EXTERNAL TANK

ARC97-716 1A14 Q1+712+512N25

ALPHAT(1) = -0.420 BETAT(1) = 0.280

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0060	.0480	.1130	.1780	.1940	.2190	.2480	.2980	.3440	.3940	.4310	.5050	.5580	.6380
PHI															
.000	1.3030	.6828	.3966	.0918	-.0787	-.1081	-.1382	-.1377	-.1321	-.0995	.0341	-.0455	-.1004	-.1065	-.1027
30.000			.3906	.0539	-.0969	-.1226	-.1491	-.1396	-.1067	-.0306	-.0927	-.0438	-.0829	-.1249	-.1297
60.000			.3508	.0502	-.0955	-.1214	-.1384	-.1401	-.0224	.0086	-.2140	-.1698	-.1402	-.1062	-.0288
90.000		.6661	.3912	.0811	-.0809	-.1098	-.1423	-.1406	.1556		-.2055	-.0278	.0004	-.0971	-.0184
120.000			.4843	.1574	-.0350	-.0722	-.1108	-.1120	.0579	-.0250	.2041	.0996	.1108	.0379	-.0281
150.000								-.0874	.0333			.1062		.0506	
180.000			.6355	.2556	.0244	-.0194	-.0839	-.0644	-.0519	.2255	.1874	-.0186	-.0194	-.0349	-.0230
210.000			.3532	.0855	.0375	-.0178	-.0204	-.0204	-.0121	.1942	.2449	.1749	.1805	-.0756	-.0179
240.000	1.9030	1.1980	.8412	.4124	.1336	-.0782	.0171	-.0166	.0273	.1560	.3314	.2309	.1834	.0286	.0135
270.000	1.2010							.4181							

H/LT .7480 .8530 .9280

PHI

.000	-.1032	-.0483	-.0293
30.000	-.0218	-.0232	-.0337
60.000	-.0320	-.0312	.0897
90.000	-.0462	-.0560	
120.000	-.0374	-.0987	.0002
150.000	-.0464	-.0763	-.0785
180.000	-.0707	-.1050	-.1408
210.000	-.0178	-.0463	-.0938
240.000	.0228	-.0429	-.1111

ALPHAT(2) = -4.300 BETAT(2) = -7.800

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0060	.0480	.1130	.1780	.1940	.2190	.2480	.2900	.3440	.3940	.4310	.5050	.5580	.6380
PHI															
.000	1.5400	.7958	.4996	.1543	-.0404	-.0740	-.1113	-.1125	-.0849	.0140	.0748	-.0070	-.0859	-.0881	-.0719
30.000			.8185	.2370	.0157	-.0233	-.0699	-.0741	-.0606	-.0065	-.0777	-.1458	-.1381	-.0387	-.0422
60.000			.7582	.5356	.0839	.0373	-.0178	-.0209	-.0046	.1651	-.1998	-.1746	-.0300	.0031	-.0400
90.000		1.2380	.8690	.4209	.1406	.0873	.0255	.0231	.4139		-.2365	-.1900	.0393	.0320	-.0266
120.000			.8989	.4469	.1596	.1034	.0394	.0367	.0796	.4067	-.0487	.0220	.0775	.2409	.1718
150.000								.0317		.2906		.1417		.1401	
180.000			.8610	.4136	.1402	.0856	.0200	.0536	.0536	.1438	.3306	.1680	.1473	.1098	.1179
210.000			.3685	.1027	.0531	-.0043	-.0053	-.0053	.0022	.1388	.2850	.4872	.3213	.1094	.1009
240.000	1.5400	1.1390	.7293	.3236	.0745	.0262	-.0233	-.0233	-.0222	.0157	.3594	.3493	.2863	.0715	.0388
270.000	.6829							.1663							

H/LT .7480 .8530 .9280

PHI

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DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

0831141

EXTERNAL TANK

ARC97-716 1A14 C3+712+512N25

ALPHAT (2) = -4.500 BETAT (1) = -7.900

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .7480 .8330 .9280

PHI
 .000 -.0794 -.0519 -.0299
 50.000 -.0767 -.0701 -.0693
 60.000 -.0482 .0175 .1063
 90.000 -.0579 -.0272 .3102
 120.000 .1246 .0470 .3102
 135.000 .1367 .1176 .1965
 150.000 .1237 .1300 .1237
 165.000 .0794 .1000 .0777
 180.000 .0623 .0802 .0369

ALPHAT (2) = -4.800 BETAT (2) = -3.880

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0080 .0490 .1130 .1780 .1940 .2130 .2420 .2900 .3440 .3940 .4510 .5020 .5360 .6360

PHI
 .000 1.2650 .8109 .5101 .1996 -.0339 -.0679 -.1042 -.1003 -.0690 .0075 .1010 .0413 -.0281 -.0636 -.0793
 50.000 .5726 .2017 -.0063 -.0480 -.0964 -.0860 -.0828 -.0239 -.0239 -.0350 -.1086 -.1035 -.0873 -.0180
 60.000 .6626 .2674 .0347 -.0086 -.0372 -.0562 -.0416 .1622 -.2044 -.2044 -.2003 -.0917 -.0032 -.0616
 90.000 1.1070 .7501 .0727 .0241 -.0261 -.0279 .3707 -.2411 -.2411 -.0394 -.0073 .0633 .0435 .0290 -.0616
 120.000 .7649 .3700 .1016 .0506 -.0076 -.0096 .0311 .4084 -.0394 .1932 .1932 .1932 .1932 .1932 .1932
 135.000 .6005 .3710 .1031 .0340 -.0064 -.0012 .0160 .1624 .1624 .1624 .1624 .1624 .1624 .1624 .1624
 150.000 .3378 .0925 .0450 .0117 -.0096 -.0075 .2660 .3937 .3937 .3937 .3937 .3937 .3937 .3937 .3937
 165.000 1.9490 1.1360 .7435 .3340 .0607 .0333 -.0175 -.0226 -.0050 .1436 .3180 .3032 .2836 .0546 .0516
 180.000 .8031

X/LT .7480 .8330 .9280

PHI
 .000 -.0490 -.0112 .0036
 50.000 -.0517 -.0367 -.0400
 60.000 -.0086 .0084 .0953
 90.000 .0074 .0007 .1947
 120.000 .0490 .0079 .1947
 135.000 .0474 .0424 .1328
 150.000 .0713 .0966 .0890
 165.000 .0503 .0401 .0193
 180.000 .0378 .0220 -.0046

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR+712+512MS (083314)

ALPHAT (2) = -4.890 BETAT (3) = .060

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
P ₀₁															
.000	1.5870	.8211	.5184	.1809	-.0394	-.0709	-.1080	-.0937	-.0750	-.0060	.0000	.0827	.0174	-.0471	-.1016
30.000			.5389	.1732	-.0292	-.0644	-.1044	-.0996	-.0728	-.0421	.0307	-.0360	-.0887	-.0996	-.0134
60.000			.5766	.1899	-.0150	-.0521	-.0904	-.0867	-.0663	.1637	-.1992	-.2027	-.0974	.0010	-.0306
90.000		.8740	.6302	.2413	.0099	-.0321	-.0762	-.0726	.3563	.4226	-.2437	-.1967	-.0356	.0103	-.0870
120.000			.6030	.2687	.0363	-.0036	-.0495	-.0507	-.0401	.0336	-.0293	.0031	.0136	.1960	.0667
150.000								-.0406				.2100		.0166	
180.000								-.0319	-.0209	.1795	.2274	.1332	.0624	.0093	-.0025
210.000								-.0269	-.0211	.2143	.2616	.2337	.2064	.0960	.0185
240.000								-.0276	-.0076	.1567	.2973	.2371	.1648	.0907	-.0289
270.000									.2662						

H/LT .7480 .8530 .9280

P ₀₁															
.000	-.0166	-.0009	.0146												
30.000	-.0449	-.0045	-.0011												
60.000	-.0420	-.0276	.0970												
90.000	.0130	.0083													
120.000	.0001	-.0346	.1363												
150.000	.0374	.0126	.0345												
180.000	.0132	-.0220	-.0181												
210.000	.0396	.0214	-.0030												
240.000	.0434	.0209	-.0244												

ALPHAT (2) = -4.890 BETAT (4) = 4.050

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
P ₀₁															
.000	1.5730	.8150	.5135	.1811	-.0371	-.0708	-.1102	-.1064	-.0912	-.0365	.0639	.0263	-.0273	-.0631	-.0871
30.000			.4798	.1361	-.0303	-.0654	-.1206	-.1025	-.0863	-.0373	-.0619	.0150	-.0423	-.0856	-.0630
60.000			.4772	.1354	-.0313	-.0626	-.1127	-.1066	-.0816	.1567	-.1795	-.1923	-.0656	-.0133	-.0522
90.000		.8264	.5087	.1590	-.0366	-.0710	-.1098	-.1032	.2470	-.2387	-.2387	-.1814	-.0174	-.0159	-.1183
120.000			.5670	.2063	-.0094	-.0481	-.0912	-.0863	-.0390	.2304	.0164	.0312	-.0049	.0917	-.0045
150.000								-.0777		-.0174		.1264		.0321	
180.000								-.0645	-.0491	.1639	.1939	.0996	.0036	-.0544	.0527
210.000								-.0474	-.0332	.2203	.2595	.1731	.1348	.1062	.0363
240.000								-.0327	-.0184	.1661	.2907	.1837	.1393	.0834	.0120
270.000									.3656						

H/LT .7480 .8530 .9280

P ₀₁															
.000	-.0166	-.0009	.0146												
30.000	-.0449	-.0045	-.0011												
60.000	-.0420	-.0276	.0970												
90.000	.0130	.0083													
120.000	.0001	-.0346	.1363												
150.000	.0374	.0126	.0345												
180.000	.0132	-.0220	-.0181												
210.000	.0396	.0214	-.0030												
240.000	.0434	.0209	-.0244												

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(RB3714)

EXTERNAL TANK

ARC97-716 1A14 Q8-T18-S12N25

ALPHAT(8) = -4.890 BETAT(4) = 4.030

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT .7480 .6330 .9287

PHI
 .000 -.0449 -.0195 -.0055
 30.000 -.0350 -.0120 -.0006
 60.000 -.0343 -.0094 -.0099
 90.000 -.0287 -.0261
 120.000 -.0217 -.0653 .0607
 135.000 -.0139 -.0479 -.0341
 150.000 -.0273 -.0733 -.0931
 165.000 -.0299 -.0169 -.0533
 180.000 .0229 -.0140 -.0666

ALPHAT(8) = -4.890 BETAT(5) = 6.140

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT .0000 .0060 .0490 .1130 .1760 .1940 .2130 .2480 .2900 .3440 .3940 .4310 .5030 .5560 .6360

PHI
 .000 1.9400 .7893 .4920 .1532 -.0362 -.0711 -.1096 -.1106 -.1058 -.0820 .0914 .0083 -.0655 -.0969
 30.000 .4193 .1010 -.0694 -.0697 -.1312 -.1277 -.1142 -.1048 .0221 -.1186 -.0754 -.0865 -.1136
 60.000 .3670 .0602 -.0774 -.1041 -.1277 -.1142 -.1041 -.1041 .1494 -.1489 -.1754 -.0166 -.0292
 90.000 .4163 .0697 -.0716 -.1002 -.1356 -.1301 .1661 -.2311 -.1344 -.0132 -.0342 -.0511
 120.000 .4659 .1357 -.0456 -.0793 -.1183 -.1174 .0420 .0360 .0936 .0469 .0883 .0237 -.0803
 135.000 .5582 .1997 -.0102 -.0463 -.0938 -.1039 -.1039 -.1039 -.0419 .0825
 150.000 .5760 .3263 .0328 -.0107 -.0610 -.0603 -.0518 .1716 .2117 .1231 .1376 .0249
 165.000 1.9400 1.0820 .7185 .3263 .0699 .0206 -.0336 -.0307 -.0117 .1233 .2633 .1968 .0041
 180.000 1.2300 .4063

H/LT .7480 .6330 .9280

PHI
 .000 -.0643 -.0628 -.0437
 30.000 -.0393 -.0289 -.0185
 60.000 -.0475 -.0216 .1164
 90.000 -.0321 -.0512
 120.000 -.0526 -.1137 .0066
 135.000 -.0671 .0907 -.0866
 150.000 -.0927 -.1166 -.1437
 165.000 -.0329 -.0619 -.1082
 180.000 -.0146 -.0356 -.1231



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083714)

EXTERNAL TANK

ARC97-716 1A14 CR-112-S12N25

ALPHAT (3) = -.310 BETAT (1) = -7.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0060	.0400	.1130	.1700	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.4520	.5360	.6360
PHI															
.000	1.8480	.0205	.0014	.2315	.0043	-.0351	-.0777	-.0607	-.0747	-.0564	.0347	.0422	-.0232	-.0585	-.0539
30.000			.7220	.3171	.0649	.0202	-.0305	-.0345	-.0191	.0499	-.0003	-.0631	-.0229	-.0423	-.0101
60.000			.0222	.3066	.1171	.0663	.0067	.0062	.0312	.2892	-.1356	-.1106	-.0319	.0309	-.0108
90.000				.0631	.4193	.1421	.0866	.0230	.4037		-.1436	-.1541	-.0444	-.0392	-.0361
120.000			1.2430	.0268	.3920	.1210	.0876	.0079	.0367	.2921	-.1277	.0238	.0022	.1298	.1337
150.000								-.0085	.0103	.2737		.0764		.0864	
180.000								-.0227	.0028	.0867	.2329	.0903	.0618	.0876	.0722
210.000				.7515	.0822	.0356	-.0239	-.0516	-.0455	.0579	.2370	.4608	.1304	.0971	.0618
240.000				.2821	.0406	-.0012	-.0516	-.0526	-.0455	.0579	.2370	.4608	.1304	.0971	.0618
270.000			1.9480	.0097	.2593	.0161	-.0233	-.0667	-.0566	.0241	.3293	.2762	.2803	.0441	.0069
			.7031						-.1872						

H/LT .7480 .0530 .0280

PHI															
.000	-.0369	-.0592	-.0467												
30.000	-.0369	-.0481	-.0007												
60.000	-.0011	.0182	.1361												
90.000	-.0309	.0180													
120.000	.1044	.0482	.3586												
150.000	.1418	.1223	.2279												
180.000	.1044	.1257	.1700												
210.000	.0707	.1107	.0824												
240.000	.0267	.0506	.0405												

ALPHAT (3) = -.300 BETAT (2) = -3.890

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

H/LT	.0000	.0060	.0400	.1130	.1700	.1940	.2130	.2420	.2900	.3440	.3940	.4310	.4520	.5360	.6360
PHI															
.000	1.5610	.9473	.6159	.2930	.0047	-.0332	-.0799	-.0707	-.0553	-.0360	.0859	.0362	.0029	-.0268	-.0581
30.000			.6770	.2745	.0357	-.0096	-.0355	-.0529	-.0273	.0111	.0335	-.0591	-.0666	-.0304	.0503
60.000			.7278	.3151	.0612	.0146	-.0362	-.0374	-.0073	.2839	-.1355	-.1523	-.0467	.0097	.0001
90.000			1.1210	.7549	.0724	.0231	-.0278	-.0276	.3373		-.2289	-.0927	.0087	-.0446	-.0746
120.000				.7329	.0663	.0185	-.0319	-.0326	.0707	.2971	-.1224	-.0586	-.0070	.1133	.0772
150.000								-.0386		.0929		.0764		.0306	
180.000				.7019	.0476	.0054	-.0413	-.0418	-.0133	.0348	.2697	.0936	.0757	.0226	.0168
210.000				.2708	.0321	-.0096	-.0541	-.0533	-.0435	.0774	.2228	.3736	.2507	.0423	.0071
240.000			1.5610	.0209	.2462	.0197	-.0222	-.0615	-.0460	.1384	.2477	.2563	.2326	.0811	-.0258
270.000			.8204						.2688						

H/LT .7480 .0530 .0280

PHI

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083314)

EXTERNAL TANK

ARC97-716 1A14 01+712+512N25

ALPHAT (3) = -.300 BETAT (2) = -3.890

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT .7400 .8530 .9280

Phi
 .0000 -.0288 -.0239 -.0143
 30.0000 -.0237 -.0182 -.0166
 60.0000 1.0028 -.0133 .1141
 90.0000 -.0249 .0318
 120.0000 .0377 .0049 .2272
 150.0000 .0350 .0479 .1459
 180.0000 .0795 .0793 .1165
 199.0000 .0233 .0530 .0282
 190.0000 .0263 .0102 -.0169

ALPHAT (3) = -.300 BETAT (3) = .070

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT .0000 .0080 .0490 .1130 .1760 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5050 .5580 .6380

Phi
 .0000 1.9950 .9603 .8242 .2591 .0116 -.0275 -.0726 -.0736 -.0612 -.0236 .1142 .0714 .0443 -.0034 -.0859
 30.0000 .0244 .8244 .2376 .0103 -.0302 -.0721 -.0731 -.0420 -.0092 .0111 .0039 -.0342 -.0571 .0006
 60.0000 .0276 .2439 .0408 -.0306 -.0750 -.0750 -.0446 .2855 -.1223 -.1513 -.0862 .0234 .0144
 90.0000 .0843 .2451 .0091 -.0314 -.0743 -.0702 .3273 -.2263 -.1934 .0116 -.0059 -.0922
 120.0000 .0344 .2466 .0154 -.0263 -.0731 -.0709 -.0345 .3059 -.1145 -.0833 -.0317 .1026 .0452
 150.0000 .0417 .2449 .0197 -.0207 -.0728 -.0670 .1515 .0072 .2132 .1137 .0399 -.0337 -.0415
 180.0000 .0360 .2492 .0193 -.0210 -.0692 -.0666 .1624 .2392 .2025 .1890 .0857 -.0222
 190.0000 .0982 .2495 .0171 -.0210 -.0673 -.0692 .1309 .2374 .1948 .1694 .0310 -.0836
 190.0000 .9593 .3306

R/LT .7400 .8530 .9280

Phi
 .0000 .0001 -.0003 .0099
 30.0000 -.0212 .0002 .0140
 60.0000 -.0096 .0052 .0794
 90.0000 -.0224 .0237
 120.0000 -.0142 .0277 .1566
 150.0000 .0163 .0040 .0686
 180.0000 .0215 .0044 .0176
 199.0000 .0292 .0137 .0117
 190.0000 .0440 .0356 .0152

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC67-716 1A14 01-712-512125 (M83714)

EXTERNAL TANK

ALPHAT (3) = -.300 BETAT (4) = 4.140

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0080	.0480	.1130	.1700	.1940	.2130	.2420	.2800	.3440	.3940	.4510	.5030	.5580	.6360
P ₀₁			.8094	.2319	.0032	-.0326	-.0772	-.0770	-.0664	-.0569	.1211	.0746	.0082	-.0344	-.0833
30.000		.9492	.5578	.1918	-.0182	-.0550	-.0945	-.0955	-.0729	.0087	-.0785	.0258	.0026	-.0474	-.0504
60.000			.5194	.1633	-.0538	-.0876	-.1025	-.0815	-.0714	.3116	-.0955	-.1363	-.0515	.0386	.0097
90.000		.8233	.9035	.1594	-.0374	-.0709	-.1076	-.0825	.2999		-.2221	-.0929	.0282	-.0015	-.1222
120.000			.5147	.1696	-.0505	-.0847	-.1049	-.1011	-.0717	.2951	-.0720	-.0530	-.0503	.0822	-.0111
150.000			.5568	.1944	-.0148	-.0521	-.0984	-.0919	-.0638	.0175	.1616	.0877	.0036	-.0853	-.0834
180.000			.2242	.2242	.0004	-.0596	-.0842	-.0825	-.0639	.1569	.2034	.1510	.1440	.0599	-.0710
210.000		.9738	.6182	.2454	.0127	-.0266	-.0729	-.0741	-.0524	.1201	.2264	.1730	.1936	.0267	-.0288
270.000		1.1090							.3539						

H/LT .7480 .8530 .9280

P₀₁

.000	-.0199	-.0008	-.0157
30.000	-.0308	-.0177	.0032
60.000	-.0429	-.0058	.1364
90.000	-.0588	.0003	
120.000	-.0419	-.0470	.0936
150.000	-.0136	-.0320	-.0101
180.000	-.0269	-.0808	-.0482
210.000	.0172	-.0056	-.0475
240.000	.0086	-.0065	-.0615

ALPHAT (3) = -.280 BETAT (5) = 8.180

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

H/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2130	.2420	.2800	.3440	.3940	.4510	.5030	.5580	.6360
P ₀₁			.9937	.2268	.0096	-.0292	-.0730	-.0771	-.0735	-.0688	.0887	.0413	-.0298	-.0676	-.0881
30.000		.9172	.4896	.1337	-.0386	-.0735	-.1093	-.1080	-.0966	.0577	-.0719	-.0697	-.0658	-.0729	-.0375
60.000			.4571	.1107	-.0624	-.0935	-.1203	-.1053	-.0943	.2069	-.0772	-.1149	-.0035	.0391	-.0259
90.000		.7021	.4239	.0990	-.0682	-.0980	-.1292	-.1108	.2030		-.2163	-.0483	.0434	-.0087	-.0939
120.000			.4480	.1204	-.0583	-.0889	-.1236	-.1224	-.0829	.1455	-.0095	-.0277	-.0591	-.0014	-.0781
150.000			.4960	.1535	-.0571	-.0699	-.1125	-.1085	-.0845	-.0535	.0645	-.0044	-.0995	-.1237	-.0823
180.000			.2046	.2046	-.0097	-.0487	-.0936	-.0918	-.0748	.1203	.1975	.0978	.1332	-.0096	-.0414
210.000		.9381	.2485	.2485	.0156	-.0231	-.0730	-.0730	-.0325	.0841	.2437	.1540	.1428	-.0135	-.0423
270.000		1.1390							.3970						

H/LT .7480 .8530 .9280

P₀₁

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

08031141

EXTERNAL TANK

ARC97-716 1A14 OL+718+312M5

ALPHAT(3) = -.000 BETAT(3) = 0.190

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT 7480 .8530 .9280

PHI
 .000 -.0496 -.0530 -.0564
 30.000 -.0329 -.0372 -.0220
 60.000 -.0612 -.0801 .1179
 90.000 -.0833 -.0416
 120.000 -.0656 -.1007 .0582
 150.000 -.0780 -.0728 -.0540
 180.000 -.0898 -.0571 -.0948
 210.000 -.0887 -.0839 -.0900
 240.000 -.0582 -.0527 -.1832

ALPHAT(4) = 3.880 BETAT(4) = -0.020

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT .0000 .0080 .0480 .1130 .1780 .1940 .2150 .2420 .2900 .3440 .3940 .4310 .5050 .5380 .6380

PHI
 .000 1.3390 1.0670 .7296 .3250 .0696 .0239 -.0286 -.0327 -.0281 -.0329 .0002 .0767 .0259 -.0157 -.0318
 30.000 .8481 .4138 .1329 .0793 .0215 .0164 .0164 .0164 .0164 .0164 .0164 .0164 .0164 .0164 .0164
 60.000 .8031 .4486 .1611 .1055 .0391 .0407 .0407 .0407 .0407 .0407 .0407 .0407 .0407 .0407 .0407
 90.000 1.8360 .8704 .4279 .1414 .0670 .0265 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270 .0270
 120.000 .7541 .3461 .0687 .0403 -.0161 .0176 .0176 .0176 .0176 .0176 .0176 .0176 .0176 .0176 .0176
 150.000 .6408 .2592 .0313 -.0093 -.0801 .0611 .0611 .0611 .0611 .0611 .0611 .0611 .0611 .0611 .0611
 180.000 .2016 -.0108 -.0462 -.0900 .0900 .0900 .0900 .0900 .0900 .0900 .0900 .0900 .0900 .0900 .0900
 210.000 .4995 .1614 -.0325 -.0850 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032
 240.000 .8990 .4995 .1614 -.0325 -.0850 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032 -.1032

N/LT 7480 .8530 .9280

PHI
 .000 -.0316 -.0266 -.0220
 30.000 7130 -.0001 .0314
 60.000 .8308 .0379 .1329
 90.000 .0329 .0315
 120.000 .0425 .0462 .0378
 150.000 .0428 .1332 .2819
 180.000 .0879 .1512 .2487
 210.000 .0421 .1230 .1371
 240.000 .0183 .1019 .0983



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A149 - VOL. 2

ARC07-716 1A14 CR-718-S18N3

EXTERNAL TANK

00031141

ALPHA (4) = 3.000 BETA (2) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT	0.000	0.000	0.400	1.130	1.700	1.940	2.130	2.420	2.900	3.440	3.940	4.510	5.030	5.520	6.060
Phi	0.000	1.3700	1.0030	.7376	.3246	.0713	.0256	-.0267	-.0281	-.0192	-.0062	.1330	.0993	.0166	.0093
30.000				.7923	.3647	.0947	.0463	-.0077	-.0096	.0164	.0764	.1260	.0173	-.0062	.0010
60.000				.7932	.3664	.1010	.0492	-.0103	-.0123	.0270	.4017	-.0303	-.0360	.0262	.0474
90.000				.7476	.3334	.0759	.0253	-.0263	-.0296	.3605	-.1321	-.1411	.0631	.0967	.0315
120.000			1.1100	.6663	.2746	.0407	-.0343	-.0556	-.0609	-.0370	.1572	-.1390	-.1267	-.0407	.0336
150.000								-.0746	-.0813	-.0464	.1686	.0332	-.0330	-.0030	-.0136
180.000				.6014	.2239	.0079	-.0330	-.0813	-.0813	-.0841	.0201	.1519	.0032	-.0166	-.0171
210.000				.1975	.1975	-.0113	-.0303	-.0930	-.0931	-.0726	.2106	.3049	.1909	.0672	-.0557
240.000				.5166	.1775	-.0233	-.0390	-.0978	-.0986	-.0592	.0761	.2247	.1999	.0903	-.0491
270.000				.8204					.3260						
R/LT	.7400	.1330	.9260												

Phi

ALPHA (4) = 3.000 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

R/LT	0.000	0.000	0.400	1.130	1.700	1.940	2.130	2.420	2.900	3.440	3.940	4.510	5.030	5.520	6.060
Phi	0.000	1.3680	1.0030	.7303	.3233	.0667	.0222	-.0272	-.0320	-.0226	-.0145	.1609	.1093	.0303	.0230
30.000				.7239	.3116	.0610	.0140	-.0373	-.0368	-.0086	.0639	-.0169	.0066	.0027	-.0011
60.000				.6760	.2764	.0359	-.0063	-.0359	-.0500	-.0176	.4361	-.0356	-.0802	-.0033	.0639
90.000			.9096	.6161	.2332	.0101	-.0301	-.0761	-.0660	.3341	-.1493	-.1366	-.0266	.1192	.0648
120.000				.5681	.1999	-.0123	-.0496	-.0925	-.0884	-.0624	.1701	-.1341	-.1208	-.0691	-.0014
150.000								-.0931	-.0931	.0213	.0213	.0327	-.0543	-.0543	-.0778
180.000				.9429	.1743	-.0224	-.0576	-.1019	-.0970	-.0567	-.0170	.2284	.0769	-.0433	-.0778
210.000				.1746	-.0264	-.0631	-.1043	-.0990	-.0780	.1101	.1599	.1942	.1726	.0337	-.0486
240.000				.5231	.1636	-.0306	-.0631	-.1021	-.0714	.0936	.2113	.1700	.1813	.0204	-.0884
270.000				.9291					.3347						
R/LT	.7400	.0330	.9260												

Phi

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

083714J

EXTERNAL TANK

ARC97-716 1A14 Q1+712+312N23

ALPHAT (4) = 3.000 BETAT (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

Z/LT 7.400 .8530 .9280

PHI
 .0000 .0003 .0163 .0117
 30.0000 .0166 .0093 .0139
 60.0000 .0190 .0025 .0947
 90.0000 .0009 .0297
 120.0000 .0123 .0030 .1627
 150.0000 .0115 .0316 .1109
 180.0000 .0304 .3340 .0760
 195.0000 .0224 .0649 .0310
 180.0000 .0566 .0462 .0212

ALPHAT (4) = 3.000 BETAT (4) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

Z/LT .0000 .0080 .0480 .1130 .1760 .1940 .2130 .2420 .2900 .3440 .3940 .4310 .5030 .5560 .6360

PHI
 .0000 1.9000 1.0070 .7281 .3164 .0661 .0190 -.0315 -.0347 -.0262 -.0214 .1638 .1019 .0357 .0021 -.0163
 30.0000 .0463 .2592 .0267 .0133 .0611 -.0632 -.0534 .1234 -.0277 .0024 .0036 .0036 .0036 .0036 .0411
 60.0000 .5632 .2003 .0116 .0466 .0876 .0866 .0303 .4236 .0139 .0662 .0430 .0058 .0477
 90.0000 .6081 .5031 .1569 .0366 .0715 .1090 .0661 .3149 .0866 .1373 .0204
 120.0000 .4714 .1374 .0517 .0623 .1153 .0929 .0746 .2071 .1670 .1346 .0210 .0490 .0213
 150.0000 .4743 .1393 .0491 .0621 .1208 .1104 .0705 .1293 .1670 .0804 .0236 .0930 .0834
 180.0000 .5082 .1537 .0421 .0756 .1141 .1104 .0863 .1317 .1626 .1367 .1166 .0202 .0632
 195.0000 1.9000 .6337 .5082 .1662 .0327 .0633 .1076 .0734 .0936 .1912 .2176 .0193 .0367
 180.0000 1.1030 .8280

Z/LT 7.400 .8530 .9280

PHI
 .0000 .0043 .0076 .0003
 30.0000 .0031 .0092 .0137
 60.0000 .0163 .0198 .1230
 90.0000 .0036 .0671
 120.0000 .0134 .0230 .1664
 150.0000 .0066 .0083 .0470
 180.0000 .0050 .0113 .0221
 195.0000 .0316 .0301 .0036
 180.0000 .0201 .0267 .0312



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC92-716 1A14 Q1+712+512M25

EXTERNAL TANK

(083714)

ALPHAT(4) = 4.000 BETAT(5) = 0.180

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	0.000	0.000	0.490	1.130	1.780	1.940	21.0	2420	2900	3440	3940	4510	5030	5580	6380
PHI	1.9400	1.0840	7124	.3137	.0856	.0211	-.0305	-.0350	-.0324	-.0247	.1060	.0569	.0142	-.0279	-.0453
30.000			.5763	.2171	-.0051	-.0394	-.0822	-.0859	-.0791	.0966	-.0237	-.0443	-.0262	-.0400	-.0240
60.000			.4731	.1360	-.0485	-.0806	-.1136	-.1157	-.0425	.1447	.0144	-.0463	-.0264	.0591	.0107
90.000		.7002	.4193	.0993	-.0721	-.1022	-.1302	-.1099	.2244	-.2326	-.2326	-.1807	.1075	.1076	-.0308
120.000			.4093	.0688	-.0762	-.1051	-.1357	-.1188	-.0261	.1133	-.1226	-.0982	.0166	.0051	-.0705
150.000			.4247	.1019	-.0678	-.0960	-.1319	-.1254	-.0921	.1113	.0789	-.0008	-.1194	-.1359	-.0777
180.000		.7948	.1377	-.0521	-.0863	-.1229	-.1213	-.0907	.0893	.1606	.0833	-.0876	-.0876	-.0536	-.0536
270.000	1.9400	1.8360	.4977	.1704	-.0336	-.0695	-.1109	-.1090	-.0424	.0342	.2019	.0937	.1292	-.0327	-.0453
X/LT	.7480	.6330	.9280						.4020						

PHI	.000	-.0398	-.0221	-.0298											
30.000		-.0102	-.0405	-.0368											
60.000		-.0472	-.0366	.1010											
90.000		-.1322	-.0385	.1447											
120.000		-.0554	-.0700	.1447											
150.000		-.0496	-.0213	.0228											
180.000		-.0729	-.0334	.0126											
270.000	-.0710	-.0148	-.0291												
PHI	.000	-.0371	-.0526	-.0863											

ALPHAT(5) = 0.250 BETAT(1) = -0.140

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	0.000	0.000	0.490	1.130	1.780	1.940	21.50	2420	2900	3440	3940	4510	5030	5580	6380
PHI	1.9400	1.1970	.8503	.4239	.1356	.0830	.0228	.0213	.0220	.0197	.0629	.0863	.0815	.0390	.0092
30.000			.9692	.5047	.1974	.1371	.0728	.0723	.0997	.1906	.2135	.0716	.0373	.0462	.0714
60.000			.9692	.5037	.1962	.1360	.0706	.0730	.1213	.3016	.0356	.0132	.0496	.0783	.0801
90.000		1.2030	.8508	.4202	.1402	.0816	.0263	.0239	.4479	-.1749	-.1749	-.1169	-.0932	-.0293	.0385
120.000			.8771	.2882	.0481	.0045	-.0422	-.0449	.0475	.0233	-.1641	-.1365	-.0861	-.0158	.0406
150.000			.5342	.1850	-.0207	-.0365	-.0994	-.0853	-.0052	.0088	.0071	-.0542	-.0141	-.0566	.0687
180.000			.1247	-.0636	-.0943	-.1244	-.1232	-.1216	-.0274	.0851	.0851	.2836	.0436	.0109	.0973
270.000	1.9400	.7404	.4013	.0913	-.0784	-.1074	-.1333	-.1244	-.1124	.0617	.2674	.1414	.1843	.0014	.0055
X/LT	.7480	.6330	.9280					.2362							

PHI

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 CR+T12+S12NE5 (R03714)

EXTERNAL TANK

ALPHAT(5) = 0.280 BETAT(1) = -6.140

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.7480	.8530	.9280
PMI			
.000	.0208	.0225	.0266
30.000	.0607	.0564	.0561
60.000	.0881	.0716	.0379
90.000	.0730	.1483	
120.000	.0596	.0514	.3733
135.000	.0919	.1468	.3051
150.000	.0860	.1707	.3322
165.000	.0424	.1509	.1603
180.000	.0573	.1328	.0936

ALPHAT(5) = 0.280 BETAT(2) = -4.050

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0080	.0480	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5050	.5580	.6380
PMI															
.000	1.5380	1.2300	.8682	.4265	.1414	.0886	.0282	.0241	.0270	.0390	.1756	.1406	.0733	.0450	.0353
30.000			.9094	.4541	.1597	.1035	.0414	.0371	.0653	.1611	.0735	.1108	.0757	.0588	.0595
60.000			.8927	.4134	.1315	.0885	.0154	.0120	.0578	.3248	.0428	.0005	.0208	.0615	.0667
90.000		1.0840	.7289	.3257	.0706	.0205	-.0359	-.0368	.3676		-.2130	-.1544	-.0874	-.0079	.0547
120.000			.5907	.2308	.0003	-.0400	-.0880	-.0805	-.0688	.0148	-.1854	-.1684	-.0937	-.0144	.0355
135.000								-.1010		.0240		-.1239		.0032	
150.000			.5025	.1634	-.0424	-.0771	-.1162	-.1097	-.0879	.0112	.0487	-.0382	-.0433	-.0175	-.0076
165.000				.1325	-.0621	-.0934	-.1304	-.1085	-.0817	.0508	.2244	.2326	.1484	.0348	-.0251
180.000	1.5380	.7382	.4211	.1103	-.0669	-.0985	-.1331	-.1116	-.0682	.0494	.2172	.1374	.1602	.0154	-.0619
270.000		.8055						.3424							

X/LT	.7480	.8530	.9280
PMI			
.000	.0416	.0399	.0433
30.000	.0610	.0320	.0518
60.000	.0634	.0494	.2044
90.000	.0249	.1286	
120.000	.0312	.0351	.2669
135.000	.0455	.0232	.2063
150.000	.0278	.0993	.2427
165.000	.0028	.1199	.1969
180.000	.0271	.1317	.1296

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 905

(083714)

EXTERNAL TANK

ALPHAT (5) = 0.270 BETAT (3) = .030

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT	.0000	.0080	.0490	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
PHI															
.000	1.3840	1.8180	.8002	.4270	.1532	.1006	.0376	.0361	.0594	.0492	.2263	.1891	.1196	.0814	.0328
30.000			.8199	.5980	.1309	.0797	.0232	.0197	.0479	.1425	.0356	.1066	.1064	.0753	.0667
60.000			.7167	.5229	.0766	.0345	-.0152	-.0185	.0221	.5355	.0734	.0159	.0334	.0664	.0918
90.000		.9246	.5696	.2366	.0223	-.0185	-.0605	-.0534	.3677		-.1937	-.1314	-.0982	.0326	.0297
120.000			.4882	.1676	-.0209	-.0561	-.0917	-.0802	-.0701	.0363	-.1714	-.1514	-.0475	.0335	.0369
150.000								-.0884		.0797		-.0030		-.0125	
180.000			.4407	.1276	-.0404	-.0720	-.1050	-.0886	-.0396	-.0192	.1535	.0066	-.0481	-.0611	-.0404
210.000				.1241	-.0497	-.0793	-.1068	-.0881	.0866	.0869	.1869	.1486	.1420	.0434	-.0328
240.000	1.3840	.7094	.4123	.1213	-.0516	-.0795	-.1090	-.1017	-.0483	.0889	.2287	.1665	.1632	.0014	-.0743
270.000		.9300													

N/LT .7480 .8380 .9280

PHI

.000	.0576	.0571	.0566
30.000	.0701	.0594	.0507
60.000	.0630	.0427	.1959
90.000	-.0304	.0916	
120.000	.0257	.0309	.2080
150.000	.0580	.0797	.1641
180.000	.0339	.0819	.1482
210.000	.0429	.1171	.1248
240.000	.0264	.1128	.0875

ALPHAT (9) = 0.280 BETAT (4) = 4.110

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

N/LT	.0000	.0080	.0490	.1130	.1780	.1940	.2150	.2420	.2900	.3440	.3940	.4510	.5030	.5560	.6360
PHI															
.000	1.5320	1.8250	.8590	.4575	.1315	.0802	.0200	.0190	.0229	.0426	.1954	.1426	.0837	.0511	.0275
30.000			.7375	.5334	.0761	.0303	-.0241	-.0229	-.0217	.1778	.0414	.0363	.0348	.0285	.0278
60.000			.5988	.2314	.0097	-.0267	-.0760	-.0777	-.0116	.3848	.0881	.0153	.0426	.0838	.0808
90.000		.7620	.4849	.1492	-.0422	-.0742	-.1126	-.0919	.3379		-.1946	-.1376	-.1050	-.0595	.0132
120.000			.4115	.1022	-.0699	-.0983	-.1302	-.1097	-.0801	.0368	-.1716	-.1758	-.0823	-.0244	-.0195
150.000								-.1146		.0133		.0017		-.0947	
180.000			.3921	.0889	-.0776	-.1048	-.1365	-.1189	-.0769	.0310	.1149	.0378	-.0651	-.1303	-.0937
210.000				.0969	-.0771	-.1048	-.1379	-.1316	-.0955	.1018	.1630	.1360	.0636	-.0151	-.0704
240.000	1.5320	.8994	.4034	.1012	-.0726	-.1012	-.1345	-.1316	-.0718	.0856	.1819	.2193	.1484	-.0411	-.0421
270.000		.10790													

N/LT .7480 .8380 .9280

PHI

.000	.0576	.0571	.0566
30.000	.0701	.0594	.0507
60.000	.0630	.0427	.1959
90.000	-.0304	.0916	
120.000	.0257	.0309	.2080
150.000	.0580	.0797	.1641
180.000	.0339	.0819	.1482
210.000	.0429	.1171	.1248
240.000	.0264	.1128	.0875

DATE 87 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

10837141

EXTERNAL TANK

ARC87-716 1A14 OL+712+812N25

ALPHAT (3) = 0.280 BETAT (4) = 4.110

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .7480 .8530 .9280

PHI
.0000 .0423 .0482 .0370
30.0000 .0307 .0198 .0043
60.0000 .0285 .0072 .1361
90.0000 -.1135 .1032 .2153
120.0000 .0147 .0302 .2153
135.0000 .0260 .0617 .0899
150.0000 .0067 .0457 .0756
165.0000 .0435 .0668 .0435
180.0000 .0280 .0635 .0234

ALPHAT (3) = 0.310 BETAT (3) = 0.280

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0000 .0080 .0480 .1130 .1780 .1940 .2150 .2420 .2900 .3440 .3940 .4510 .5030 .5560 .6380
PHI
.0000 1.5070 1.1950 .8432 .4110 .1318 .0776 .0189 .0138 .0180 .0179 .0762 .0660 .0627 .0295
30.0000 .6870 .2845 .0416 -.0031 -.0509 -.0354 -.0371 .1363 .1116 .0576 .0273 .0051 .0086
60.0000 .5024 .1609 -.0366 -.0766 -.1082 -.1157 -.0824 .0061 .1060 .0460 .0564 .0901 .8154
90.0000 .6645 .0803 -.0821 -.1123 -.1444 -.1232 .1676 .1676 .1912 -.1286 -.0918 -.0742 -.0499
120.0000 .3531 .0596 -.0561 -.1217 -.1504 -.1423 -.0228 .0145 -.1809 -.1386 -.0676 -.0329 -.0517
135.0000 .3516 .0603 -.0937 -.1181 -.1492 -.1393 -.0624 .0833 .0641 -.0153 -.1180 -.1317 -.0900
150.0000 .0796 -.0893 -.1176 -.1476 -.1422 -.0912 .0578 .1508 .0932 .0283 -.0344 -.0764
165.0000 1.5070 .6473 .3814 .1030 -.0787 -.1065 -.1406 -.1374 -.0295 .0136 .1631 .0370 -.0349
180.0000 1.2110 .4334

X/LT .7480 .8530 .9280

PHI
.0000 .0149 .0161 .0117
30.0000 .0086 -.0150 -.0283
60.0000 .0031 -.0031 .1356
90.0000 -.1374 .0848
120.0000 .0268 .0023 .2080
135.0000 -.0174 .0432 .0456
150.0000 -.0342 .0333 .0834
165.0000 -.0495 .0372 .0372
180.0000 -.0606 .0247 -.0186

ARC97-716 1A14 Q1+T12+S12NE5+AT11 SRM NOZZLE

(R03X12) (10 JAN 74)

REFERENCE DATA

DATE =	2.4210	50.71.	WARP =	20.5000	INCHES
DATE =	50.7050	INCHES	WARP =	.0000	INCHES
DATE =	50.7000	INCHES	WARP =	.0000	INCHES
SCALE =	.0000	SCALE			

PARAMETRIC DATA

WACH =	2.200	ELEVON =	.000
FLUDER =	.000	SPOBRK =	.000

ALPHAT(1) = -0.400 BETAT(1) = -0.100

SECTION (1) SPR NOZZLE	DEPENDENT VARIABLE CP
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
24	0.000
25	0.000
26	0.000
27	0.000
28	0.000
29	0.000
30	0.000
31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
37	0.000
38	0.000
39	0.000
40	0.000
41	0.000
42	0.000
43	0.000
44	0.000
45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
66	0.000
67	0.000
68	0.000
69	0.000
70	0.000
71	0.000
72	0.000
73	0.000
74	0.000
75	0.000
76	0.000
77	0.000
78	0.000
79	0.000
80	0.000
81	0.000
82	0.000
83	0.000
84	0.000
85	0.000
86	0.000
87	0.000
88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

X/L3	.0480	.0760	.0030
PHI			
	-.1936	-.3239	-.2249
45.0000	-.3222	-.3236	-.2308
90.0000	-.3222	-.3239	-.2283
135.0000	-.2217	-.3234	-.2271
180.0000	-.3220	-.3227	-.1927
225.0000	-.3220	-.3224	-.2140
270.0000	-.3229	-.3229	-.2115
315.0000	-.3237	-.3236	-.3083

ALPHAT(1) = -0.390 BETAT(2) = -4.110

SECTION (1) SR4 NOZZLE

W/L3	PM1	.9480	.9760	.9930
.0000		-.1936	-.2121	-.2140
45.0000		-.2106	-.2143	-.2136
90.0000		-.2102	-.2134	-.2135
135.0000		-.2109	-.2109	-.2116
180.0000		-.2102	-.2097	-.1667
225.0000		-.2102	-.2102	-.2070
270.0000		-.2111	-.2140	-.1662
315.0000		-.2198	-.2148	-.2129

ALPHAT(1) = -0.390 BETAT(3) = -.020

SECTION (1) 38N NOZZLE	DEPENDENT VARIABLE CP
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
34	0.0000
35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
40	0.0000
41	0.0000
42	0.0000
43	0.0000
44	0.0000
45	0.0000
46	0.0000
47	0.0000
48	0.0000
49	0.0000
50	0.0000
51	0.0000
52	0.0000
53	0.0000
54	0.0000
55	0.0000
56	0.0000
57	0.0000
58	0.0000
59	0.0000
60	0.0000
61	0.0000
62	0.0000
63	0.0000
64	0.0000
65	0.0000
66	0.0000
67	0.0000
68	0.0000
69	0.0000
70	0.0000
71	0.0000
72	0.0000
73	0.0000
74	0.0000
75	0.0000
76	0.0000
77	0.0000
78	0.0000
79	0.0000
80	0.0000
81	0.0000
82	0.0000
83	0.0000
84	0.0000
85	0.0000
86	0.0000
87	0.0000
88	0.0000
89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

X/L\$	Y/L\$	Y/L\$	Y/L\$
100.000	100.000	100.000	100.000
49.000	49.000	49.000	49.000
90.000	90.000	90.000	90.000
135.000	135.000	135.000	135.000
180.000	180.000	180.000	180.000
225.000	225.000	225.000	225.000

(083312)

ARC97-716 1A14 Q1-T12-S12N5+T11 SRM NOZZLE

ALPHA7 (1) = -0.390 BETAT (3) = -.020

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9790 .9930

Psi

870.000 -.2229 -.2268 -.1572
 919.000 -.2231 -.2251 -.2129

ALPHA7 (1) = -0.390 BETAT (4) = 3.990

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9790 .9930

Psi

.000 -.1970 -.2231 -.2246
 45.000 -.2212 -.2344 -.2308
 90.000 -.2339 -.2261 -.2236
 135.000 -.2231 -.2231 -.2221
 180.000 -.2216 -.2216 -.1744
 225.000 -.2209 -.2261 -.1796
 270.000 -.2216 -.2253 -.1602
 315.000 -.2219 -.2241 -.1937

ALPHA7 (1) = -0.410 BETAT (5) = 0.040

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9790 .9930

Psi

.000 -.1434 -.1668 -.1787
 45.000 -.1664 -.1712 -.1800
 90.000 -.1722 -.1734 -.1710
 135.000 -.1732 -.1715 -.1702
 180.000 -.1693 -.1690 -.1439
 225.000 -.1671 -.1676 -.1506
 270.000 -.1659 -.1661 -.1496
 315.000 -.1654 -.1673 -.1540



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083122)

ARC97-716 1A14 Q1+712+512+2+AT11 SRM NOZZLE

ALPHAT (2) = -4.300 BETAT (3) = -0.070

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L	.9400	.9700	.9930
P01			
.000	-.2003	-.2213	-.2227
45.000	-.2196	-.2208	-.2220
90.000	-.2206	-.2206	-.2223
135.000	-.2206	-.2213	-.2240
180.000	-.2206	-.2218	-.2246
225.000	-.2201	-.2213	-.2075
270.000	-.2201	-.2208	-.2060
315.000	-.2203	-.2210	-.2077

ALPHAT (2) = -4.280 BETAT (2) = -4.000

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L	.9400	.9700	.9930
P01			
.000	-.2033	-.2261	-.2273
45.000	-.2249	-.2254	-.2278
90.000	-.2254	-.2261	-.2283
135.000	-.2261	-.2278	-.2315
180.000	-.2259	-.2276	-.2357
225.000	-.2259	-.2276	-.2147
270.000	-.2251	-.2266	-.2091
315.000	-.2251	-.2259	-.2140

ALPHAT (2) = -4.870 BETAT (3) = -.030

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L	.9400	.9700	.9930
P01			
.000	-.2108	-.2323	-.2332
45.000	-.2317	-.2323	-.2342
90.000	-.2327	-.2334	-.2366
135.000	-.2322	-.2344	-.2366
180.000	-.2337	-.2339	-.2366
225.000	-.2334	-.2327	-.2186
270.000	-.2323	-.2323	-.2061
315.000	-.2320	-.2329	-.2193

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(H83M2)

ARC97-716 1A14 CR-T12-S12N25-AT11 SRM NOZZLE

ALPHA(2) = -4.290 BETAT(4) = 3.920

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3	.9480	.9760	.9930
Phi			
.000	-.1762	-.1937	-.1994
45.000	-.1933	-.1937	-.1981
90.000	-.1940	-.1942	-.1964
135.000	-.1942	-.1952	-.1955
180.000	-.1945	-.1936	-.1909
225.000	-.1936	-.1950	-.1790
270.000	-.1930	-.1960	-.1599
315.000	-.1947	-.1972	-.1664

ALPHA(2) = -4.290 BETAT(5) = 7.980

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3	.9480	.9760	.9930
Phi			
.000	-.1800	-.1716	-.1743
45.000	-.1693	-.1720	-.1765
90.000	-.1720	-.1743	-.1770
135.000	-.1736	-.1726	-.1735
180.000	-.1730	-.1726	-.1727
225.000	-.1716	-.1732	-.1757
270.000	-.1706	-.1750	-.1725
315.000	-.1706	-.1703	-.1796

ALPHA(3) = -.310 BETAT(1) = -9.050

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3	.9480	.9760	.9930
Phi			
.000	-.2170	-.2475	-.2476
45.000	-.2456	-.2470	-.2486
90.000	-.2475	-.2476	-.2229
135.000	-.2490	-.2482	-.2456
180.000	-.2483	-.2497	-.2076
225.000	-.2470	-.2476	-.2336
270.000	-.2456	-.2470	-.2309
315.000	-.2463	-.2475	-.2326



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083322)

ARCS7-716 1A14 Q1+718+812NEP+AT13 8MM NOZZLE

ALPHA7 (3) = -.310 BETAT (2) = -4.060

SECTION (1) 8MM NOZZLE DEPENDENT VARIABLE CP

M/L3 .6480 .9780 .9930

PM2	CP
.000	-.2504
.000	-.2447
.000	-.2437
.000	-.2394
.000	-.2457
.000	-.2469
.000	-.2508
.000	-.2479
.000	-.2481
.000	-.2478
.000	-.2073
.000	-.2497
.000	-.2478
.000	-.2437
.000	-.2339
.000	-.2450
.000	-.2432
.000	-.2327
.000	-.2454
.000	-.2462
.000	-.2325

ALPHA7 (3) = -.300 BETAT (3) = -.100

SECTION (1) 8MM NOZZLE DEPENDENT VARIABLE CP

M/L3 .6480 .9780 .9930

PM1	CP
.000	-.2070
.000	-.2399
.000	-.2403
.000	-.2408
.000	-.2398
.000	-.2423
.000	-.2430
.000	-.2365
.000	-.2441
.000	-.2447
.000	-.2459
.000	-.2399
.000	-.2425
.000	-.2041
.000	-.2411
.000	-.2423
.000	-.2259
.000	-.2406
.000	-.2420
.000	-.1850
.000	-.2396
.000	-.2420
.000	-.2237

ALPHA7 (3) = -.300 BETAT (4) = 3.970

SECTION (1) 8MM NOZZLE DEPENDENT VARIABLE CP

M/L3 .6480 .9780 .9930

PM1	CP
.000	-.1836
.000	-.2008
.000	-.2003
.000	-.2001
.000	-.2003
.000	-.1979
.000	-.2001
.000	-.2003
.000	-.1974
.000	-.1988
.000	-.2020
.000	-.1984
.000	-.1988
.000	-.1980
.000	-.1964
.000	-.1993
.000	-.1992
.000	-.1998
.000	-.1994
.000	-.18740
.000	-.1807
.000	-.1988
.000	-.2013
.000	-.1403
.000	-.1976
.000	-.1996
.000	-.1856

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - V2L. 2

(083X12)

ARC97-716 1A14 01-712-312N25-A711 3PM NOZZLE

ALPHA7 (3) = -.310 BETAT (3) = 8.020

SECTION (1) 3PM NOZZLE DEPENDENT VARIABLE CP

X/L	0.460	0.700	0.930
P ₀₁			
.000	-.1370	-.1672	-.1653
49.000	-.1660	-.1669	-.1733
90.000	-.1653	-.1702	-.1799
135.000	-.1670	-.1667	-.1724
180.000	-.1666	-.1660	-.1470
225.000	-.1666	-.1726	-.1546
270.000	-.1663	-.1709	-.1071
315.000	-.1663	-.1672	-.1556



00000000 (10 JAN 74)

84M NOZZLE

ARC97-716 1A14 CR+718+512NES

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPDR = .000

REFERENCE DATA

REF = 2.4210 36 FT. XMRP = 25.5000 INCHES
REF = 30.7090 INCHES YMRP = .0000 INCHES
REF = 30.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT (1) = -0.400 BETAT (1) = -7.950

DEPENDENT VARIABLE CP

SECTION (1) 84M NOZZLE

X/L3 .0400 .0700 .0930

PHI
.0000 -.2125 -.2388 -.2599
45.0000 -.2352 -.2506 -.2436
90.0000 -.2302 -.2374 -.2443
135.0000 -.2300 -.2362 -.2369
180.0000 -.2355 -.2352 -.1940
225.0000 -.2300 -.2302 -.2145
270.0000 -.2302 -.2364 -.2125
315.0000 -.2377 -.2382 -.2143

ALPHAT (1) = -0.360 BETAT (2) = -3.820

DEPENDENT VARIABLE CP

SECTION (1) 84M NOZZLE

X/L3 .0400 .0700 .0930

PHI
.0000 -.2046 -.2240 -.2231
45.0000 -.2209 -.2245 -.2282
90.0000 -.2233 -.2240 -.2287
135.0000 -.2216 -.2221 -.2226
180.0000 -.2211 -.2214 -.1869
225.0000 -.2214 -.2233 -.2069
270.0000 -.2223 -.2260 -.1909
315.0000 -.2236 -.2321 -.2133

ALPHAT (1) = -0.360 BETAT (3) = .150

DEPENDENT VARIABLE CP

SECTION (1) 84M NOZZLE

X/L3 .0400 .0700 .0930

PHI
.0000 -.1868 -.2072 -.2075
45.0000 -.2086 -.2082 -.2099
90.0000 -.2086 -.2094 -.2102
135.0000 -.2072 -.2087 -.2097
180.0000 -.2090 -.2101 -.1474
225.0000 -.2097 -.2147 -.1624

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(083314)

SRM NOZZLE

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC07-716 1A14 CL+712-S12N3

ALPHAT(1) = -0.380 BETAT(3) = .150

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9780 .9930

Phi

270.000 -.2082 -.2089 -.1146
315.000 -.2075 -.2111 -.1097

ALPHAT(1) = -0.400 BETAT(4) = 4.130

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9780 .9930

Phi

.000 -.1784 -.2034 -.2093
45.000 -.1980 -.2059 -.2102
90.000 -.2032 -.2074 -.2057
135.000 -.2034 -.2069 -.2029
180.000 -.2045 -.2042 -.1750
225.000 -.2035 -.2049 -.1875
270.000 -.2040 -.2076 -.1725
315.000 -.2045 -.2082 -.1939

ALPHAT(1) = -0.420 BETAT(5) = 8.280

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

X/L3 .9480 .9780 .9930

Phi

.000 -.1502 -.1808 -.1838
45.000 -.1801 -.1837 -.1876
90.000 -.1844 -.1854 -.1893
135.000 -.1898 -.1892 -.1852
180.000 -.1832 -.1840 -.1416
225.000 -.1818 -.1847 -.1519
270.000 -.1806 -.1820 -.1328
315.000 -.1594 -.1818 -.1499



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARCS7-716 1A14 CL+T18+SI2N23

0003141

SNM NOZZLE

ALPHAT (2) = -4.300 BETAT (3) = -7.000

SECTION (1) SNM NOZZLE DEPENDENT VARIABLE CP

X/L5 .9400 .9700 .9930

PHI
.000 -.1731 -.1967 -.1985
45.000 -.1945 -.1956 -.1968
90.000 -.1948 -.1957 -.1974
135.000 -.1950 -.1962 -.1976
180.000 -.1957 -.1962 -.1971
225.000 -.1955 -.1957 -.1941
270.000 -.1959 -.1969 -.1936
315.000 -.1957 -.1969 -.1965

ALPHAT (2) = -4.280 BETAT (3) = -3.000

SECTION (1) SNM NOZZLE DEPENDENT VARIABLE CP

X/L5 .9400 .9700 .9930

PHI
.000 -.1734 -.1916 -.1937
45.000 -.1906 -.1921 -.1942
90.000 -.1904 -.1914 -.1935
135.000 -.1909 -.1926 -.1957
180.000 -.1909 -.1925 -.1958
225.000 -.1906 -.1923 -.1895
270.000 -.1911 -.1918 -.1856
315.000 -.1906 -.1921 -.1869

ALPHAT (2) = -4.280 BETAT (3) = .000

SECTION (1) SNM NOZZLE DEPENDENT VARIABLE CP

X/L5 .9400 .9700 .9930

PHI
.000 -.1769 -.1969 -.1999
45.000 -.1973 -.1982 -.2013
90.000 -.1973 -.1984 -.2035
135.000 -.1982 -.1999 -.2037
180.000 -.1987 -.1999 -.1964
225.000 -.1990 -.1989 -.1901
270.000 -.1992 -.1992 -.1897
315.000 -.1992 -.1987 -.1921

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 008

ARC97-710 1A14 Q1-T12-S12M25

SRM NOZZLE

00833141

ALPHAT (2) = -0.290 BETAT (4) = 4.050

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

M/L3	.0400	.0700	.0930
PWT			
.000	-.1799	-.1006	-.1992
45.000	-.1902	-.1931	-.1901
90.000	-.1902	-.1921	-.1930
135.000	-.1904	-.1912	-.1921
180.000	-.1914	-.1919	-.1875
225.000	-.1910	-.1924	-.1809
270.000	-.1926	-.1952	-.1667
315.000	-.1916	-.1950	-.1847

ALPHAT (2) = -4.290 BETAT (3) = 0.140

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

M/L3	.0400	.0700	.0930
PWT			
.000	-.1376	-.1306	-.1500
45.000	-.1513	-.1504	-.1505
90.000	-.1547	-.1556	-.1505
135.000	-.1549	-.1542	-.1547
180.000	-.1544	-.1540	-.1548
225.000	-.1592	-.1592	-.1400
270.000	-.1571	-.1563	-.1423
315.000	-.1584	-.1560	-.1489

ALPHAT (3) = -.310 BETAT (1) = -7.020

SECTION (1) SRM NOZZLE DEPENDENT VARIABLE CP

M/L3	.0400	.0700	.0930
PWT			
.000	-.1866	-.2074	-.2074
45.000	-.2057	-.2055	-.2064
90.000	-.2057	-.2059	-.2067
135.000	-.2079	-.2083	-.2103
180.000	-.2067	-.2061	-.1871
225.000	-.2047	-.2076	-.2029
270.000	-.2047	-.2057	-.2016
315.000	-.2043	-.2059	-.2042



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

00031141

3MM NOZZLE

ARC57-716 1A14 Q1-T12-S12H25

ALPHAT (3) = -.300 BETAT (2) = -3.690

SECTION (1) 3MM NOZZLE DEPENDENT VARIABLE CP

X/L/S .0480 .0700 .0930

PHI
 .0000 -.1718 -.1944 -.1956
 45.0000 -.1934 -.1938 -.1951
 90.0000 -.1941 -.1941 -.1953
 135.0000 -.1948 -.1950 -.1977
 180.0000 -.1939 -.1950 -.1793
 225.0000 -.1932 -.1948 -.1945
 270.0000 -.1929 -.1939 -.1923
 315.0000 -.1939 -.1941 -.1945

ALPHAT (3) = -.300 BETAT (3) = .070

SECTION (1) 3MM NOZZLE DEPENDENT VARIABLE CP

X/L/S .0480 .0700 .0930

PHI
 .0000 -.2023 -.2204 -.2214
 45.0000 -.2204 -.2204 -.2223
 90.0000 -.2214 -.2221 -.2245
 135.0000 -.2233 -.2245 -.2284
 180.0000 -.2204 -.2228 -.1985
 225.0000 -.2206 -.2223 -.2040
 270.0000 -.2199 -.2219 -.1925
 315.0000 -.2204 -.2216 -.2035

ALPHAT (3) = -.300 BETAT (4) = 4.140

SECTION (1) 3MM NOZZLE DEPENDENT VARIABLE CP

X/L/S .0480 .0700 .0930

PHI
 .0000 -.1752 -.1948 -.1974
 45.0000 -.1926 -.1970 -.1982
 90.0000 -.1946 -.1953 -.1974
 135.0000 -.1948 -.1956 -.1988
 180.0000 -.1948 -.1965 -.1730
 225.0000 -.1935 -.1977 -.1834
 270.0000 -.1931 -.1977 -.1568
 315.0000 -.1941 -.1974 -.1888

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A140 - VOL. 2

(R53X14)

SRM NOZZLE

ARCS 7-7.6 1A14 C1-712-812N25

ALPHAT (S) = -.290 BETAT (S) = 0.190

DEPENDENT VARIABLE CP

SECTION (1) SRM NOZZLE

X/LB .9480 .9780 .9930

PMI

.000	-.1224	-.1643	-.1636
45.000	-.1429	-.1685	-.1703
90.000	-.1622	-.1663	-.1737
135.000	-.1839	-.1683	-.1666
180.000	-.1643	-.1680	-.1482
225.000	-.1634	-.1643	-.1361
270.000	-.1631	-.1634	-.1488
315.000	-.1624	-.1634	-.1354



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0837111 (10 JAN 74)

ARC97-716 1A14 Q1-T12-S12N2+AT11 ET + SRM BASE

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
RUDDER = .000 SPDRK = .000

REFERENCE DATA

SRP = 2.4210 50. FT. ZMRP = 29.5600 INCHES
LRP = 30.7090 INCHES YMRP = .0000 INCHES
BRP = 30.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT (1) = -0.250 BETAT (1) = -0.040

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0236 -.2735 -.5447 -.5447 -.5679 -.6096

ALPHAT (1) = -0.250 BETAT (2) = -4.330

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1922 -.2366 -.4705 -.4712 -.5169 -.9201

ALPHAT (1) = -0.250 BETAT (3) = -.100

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1925 -.2505 -.3379 -.3565 -.3586 -.3508

ALPHAT (1) = -0.250 BETAT (4) = 3.880

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1993 -.2360 -.3498 -.2930 -.3614 -.3675

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ARCS7-716 1A14 Q1+712+312MS+AT11 ET + SRM BASE (R83Y111)

ALPHAT(1) = -0.310 BETAT(1) = 7.690
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 501.0000502.0000901.0000902.0000903.0000904.0000
 .000 -0.2198 -0.2730 -0.3169 -0.3211 -0.3326 -0.3227
ALPHAT(2) = -4.240 BETAT(1) = -7.980
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 501.0000502.0000901.0000902.0000903.0000904.0000
 .000 -0.2174 -0.2649 -0.3437 -0.3718 -0.3827 -0.3364
ALPHAT(2) = -4.220 BETAT(2) = -4.130
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 501.0000502.0000901.0000902.0000903.0000904.0000
 .000 -0.1809 -0.2574 -0.3380 -0.3306 -0.3431 -0.3684
ALPHAT(2) = -4.220 BETAT(3) = -0.110
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 501.0000502.0000901.0000902.0000903.0000904.0000
 .000 -0.1783 -0.2357 -0.2196 -0.2241 -0.2346 -0.2352
ALPHAT(2) = -4.220 BETAT(4) = 3.820
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 501.0000502.0000901.0000902.0000903.0000904.0000
 .000 -0.1921 -0.2325 -0.2340 -0.2364 -0.2612 -0.2809



0835111)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 Q1+712+812+5+AT11 ET + SRM BASE

ALPHAT(2) = -4.230 BETAT(3) = 7.870
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.2027 -.2044 -.2370 -.2304 -.2336 -.2092

ALPHAT(3) = -.300 BETAT(1) = -7.870
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.2097 -.2090 -.2768 -.2270 -.2215 -.2017

ALPHAT(3) = -.290 BETAT(2) = -4.180
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1886 -.2378 -.2371 -.2021 -.2672 -.2075

ALPHAT(3) = -.290 BETAT(3) = -.150
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1770 -.2399 -.2107 -.2232 -.2235 -.2540

ALPHAT(3) = -.290 BETAT(4) = 3.880
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1028 -.2485 -.1911 -.1824 -.1765 -.1969

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ARC97-716 1A14 CR-T12-S12N25-AT11 ET + SHM BASE

(0837111)

ALPHAT(3) = -.300 BETAT (3) = 7.850

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1972 -.2993 -.2347 -.2533 -.2804 -.2778

ALPHAT(4) = 3.930 BETAT (1) = -7.940

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1962 -.2986 -.3743 -.3997 -.3942 -.4127

ALPHAT(4) = 3.960 BETAT (2) = -4.140

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1773 -.2467 -.2940 -.3167 -.3069 -.3241

ALPHAT(4) = 3.930 BETAT (3) = -.130

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1763 -.2424 -.2545 -.2112 -.2622 -.2573

ALPHAT(4) = 3.940 BETAT (4) = 3.640

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1775 -.2436 -.2501 -.2980 -.2845 -.3014



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2
ARCS7-716 1A14 Q1+712+812NE5+AT11 ET + SRM BASE

083711)

ALPHAT(4) = 3.940 BETAT(5) = 7.860
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000202.0000001.0000002.0000003.0000004.0000

.000 --.1959 --.2501 --.1911 --.2225 --.2212 --.2423
ALPHAT(5) = 0.130 BETAT(1) = -7.990
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000202.0000001.0000002.0000003.0000004.0000

.000 --.1845 --.2472 --.3003 --.3486 --.3361 --.3509
ALPHAT(5) = 0.120 BETAT(2) = -4.220
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000202.0000001.0000002.0000003.0000004.0000

.000 --.1073 --.2294 --.2669 --.3229 --.3109 --.3235
ALPHAT(5) = 0.120 BETAT(3) = -.170
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000202.0000001.0000002.0000003.0000004.0000

.000 --.1502 --.2119 --.2306 --.2994 --.2906 --.2772
ALPHAT(5) = 0.140 BETAT(4) = 3.820
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000202.0000001.0000002.0000003.0000004.0000

.000 --.1303 --.2121 --.2659 --.3042 --.3011 --.3117

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0033111

ARC97-716 1A14 Qc+712+312N23+AT11 ET + SHM BASE

ALPHA (S) = 8.100 BETA (S) = 7.930

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1637 -.2354 -.2430 -.2693 -.2836 -.3001



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A146 - VOL. 2

PAGE 019

ARC97-716 1A14 Q1+712+512N2+AT11 ET + SHM BASE

R03Y112) (18 JAN 74)

REFERENCE DATA

2P = 2.4510 50.FT. 2MRP = 29.5400 INCHES
 LR = 30.7050 INCHES 1MRP = .0000 INCHES
 BRP = 30.7050 INCHES 2MRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT(1) = -0.400 BETAT (1) = -0.100

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.1164 -.2221 -.1043 -.2096 -.2106 -.2115

ALPHAT(1) = -0.300 BETAT (2) = -4.110

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.1231 -.2164 -.1003 -.2062 -.2021 -.2046

ALPHAT(1) = -0.300 BETAT (3) = -.020

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.1179 -.2057 -.1912 -.2046 -.2046 -.2133

ALPHAT(1) = -0.300 BETAT (4) = .990

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.1270 -.2111 -.1719 -.1917 -.1963 -.2001

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+T12+S12N25+AT11 ET + SRM BASE

(083712)

ALPHAT(1) = -0.010 BETAT(3) = 0.040

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.00000001.00000002.00000003.00000004.0000

.000 --.1246 --.2014 --.1426 --.1433 --.1575 --.1560

ALPHAT(2) = -4.300 BETAT(1) = -0.070

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.00000001.00000002.00000003.00000004.0000

.000 --.1133 --.0245 --.1057 --.2002 --.2070 --.2051

ALPHAT(2) = -4.800 BETAT(2) = -4.020

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.00000001.00000002.00000003.00000004.0000

.000 --.1203 --.2247 --.1065 --.2067 --.2077 --.2079

ALPHAT(2) = -4.800 BETAT(3) = -0.030

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.00000001.00000002.00000003.00000004.0000

.000 --.1102 --.2121 --.1908 --.2213 --.2201 --.2227

ALPHAT(2) = -4.200 BETAT(4) = 3.000

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.00000001.00000002.00000003.00000004.0000

.000 --.1307 --.2100 --.1902 --.1806 --.1800 --.1876



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

0003712)

ARC97-716 1A14 01+718+512MS+AT11 ET + SRM BASE

ALPHAT(2) = -4.290 BETAT(3) = 7.980

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1243 -.2079 -.1410 -.1469 -.1927 -.1568

ALPHAT(3) = -.310 BETAT(1) = -0.050

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1055 -.2102 -.1994 -.2342 -.2356 -.2291

ALPHAT(3) = -.310 BETAT(2) = -4.060

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1126 -.2137 -.2013 -.2331 -.2367 -.2300

ALPHAT(3) = -.300 BETAT(3) = -.100

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.01.0601.0000602.0000603.0000604.0000

.000 -.1144 -.2162 -.1911 -.2293 -.2331 -.2295

ALPHAT(3) = -.300 BETAT(4) = 3.970

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1135 -.1995 -.1596 -.1870 -.1844 -.1932

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(MSV12)

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 OL+712+S12N25+AT11 ET + SRM BASE

ALPHAT(3) = -.310 BETAT (5) = 0.020
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 --.1056 --.1934 --.1332 --.1574 --.1579 --.1649

ALPHAT(4) = 3.990 BETAT (1) = -8.120

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 --.0940 --.1927 --.1905 --.2244 --.2260 --.2202

ALPHAT(4) = 3.970 BETAT (2) = -4.060

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 --.1009 --.1905 --.1943 --.2231 --.2253 --.2187

ALPHAT(4) = 3.960 BETAT (3) = -.040

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 --.1011 --.1874 --.1864 --.2226 --.2246 --.2212

ALPHAT(4) = 3.990 BETAT (4) = 3.950

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 --.1002 --.1832 --.1773 --.2163 --.2189 --.2194



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-718 1A14 Q1+T12+312N5+AT11 ET + SRM BASE 0035112)

ALPHAT (4) = 4.000 BETAT (3) = 7.970

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0976 -.1767 -.1405 -.1895 -.1666 -.1743

ALPHAT (5) = 8.270 BETAT (1) = -8.190

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0939 -.1766 -.1759 -.2131 -.2195 -.2078

ALPHAT (5) = 8.240 BETAT (2) = -4.130

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0966 -.1733 -.1831 -.2206 -.2210 -.2182

ALPHAT (5) = 8.270 BETAT (3) = -.040

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0940 -.1765 -.1829 -.2202 -.2209 -.2197

ALPHAT (5) = 8.290 BETAT (4) = 4.050

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.0976 -.1756 -.1891 -.2069 -.2094 -.2086

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DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 060

ARC97-716 1A14 C3-712-S12MS-A711 ET + SM BASE

(R33Y12)

ALPHAT (S) = 0.320 BETAT (S) = 0.110

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201 .0000302 .0000301 .0000302 .0000303 .0000304 .0000

.000 -.0913 -.1673 -.1246 -.1652 -.1633 -.1690



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 001

ARC97-716 1A14 Q1+712+312MS

ET + SRM BASE

083Y13) (10 JAN 74)

REFERENCE DATA

SRP = 2.4210 36.7T. XMRP = 29.3600 INCHES
 LRP = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT(1) = -0.290 BETAT (1) = -0.100

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.2519 -.3329 -.2377 -.2327 -.2714 -.2766

ALPHAT(1) = -0.290 BETAT (2) = -3.730

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.2104 -.2633 -.2356 -.2125 -.2268 -.2564

ALPHAT(1) = -0.290 BETAT (3) = .170

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.2032 -.2303 -.1816 -.1932 -.2131 -.2350

ALPHAT(1) = -0.270 BETAT (4) = 4.300

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000001.0000002.0000003.0000004.0000

.000 -.1944 -.2393 -.2123 -.2235 -.2414 -.2610

PARAMETRIC DATA

MACH = 1.550 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

DATE - JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083Y13)

ET + 3MM BASE

ARC07-710 1A14 Q1-710-S12M25

ALPHAT(1) = -0.850 BETAT(1) = 0.260
 SECTION (1) ET + 3MM BASE DEPENDENT VARIABLE CP
 TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000
 .000 -.2205 -.2426 -.2240 -.2267 -.2373 -.2495
 ALPHAT(2) = -4.240 BETAT(1) = -0.030
 SECTION (1) ET + 3MM BASE DEPENDENT VARIABLE CP
 TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000
 .000 -.2261 -.3145 -.2478 -.2591 -.2799 -.2803
 ALPHAT(2) = -4.220 BETAT(2) = -3.060
 SECTION (1) ET + 3MM BASE DEPENDENT VARIABLE CP
 TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000
 .000 -.2051 -.2555 -.2278 -.2166 -.2400 -.2606
 ALPHAT(2) = -4.250 BETAT(3) = .330
 SECTION (1) ET + 3MM BASE DEPENDENT VARIABLE CP
 TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000
 .000 -.2020 -.2437 -.1892 -.2025 -.2184 -.2332
 ALPHAT(2) = -4.220 BETAT(4) = 4.180
 SECTION (1) ET + 3MM BASE DEPENDENT VARIABLE CP
 TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000
 .000 -.1891 -.2332 -.2059 -.2363 -.2559 -.2663

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(RBSY13)

ET + SM BASE

ARC97-716 1A14 Q1-T12-S12M29

ALPHAT(2) = -4.230 BETAT (3) = 0.100
 SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP
 TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
 .000 -0.8077 -0.2483 -0.1990 -0.2211 -0.2290 -0.2442
 ALPHAT(3) = -0.310 BETAT (1) = -0.020
 SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP
 TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
 .000 -0.2360 -0.3236 -0.2953 -0.3020 -0.3036 -0.3189
 ALPHAT(3) = -0.270 BETAT (2) = -4.000
 SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP
 TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
 .000 -0.2099 -0.2931 -0.2632 -0.2655 -0.2666 -0.2876
 ALPHAT(3) = -0.280 BETAT (3) = -0.150
 SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP
 TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
 .000 -0.1874 -0.2382 -0.2063 -0.2164 -0.2127 -0.2424
 ALPHAT(3) = -0.280 BETAT (4) = 4.190
 SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP
 TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
 .000 -0.1201 -0.2324 -0.2309 -0.2563 -0.2631 -0.2710

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(083113)

ET + SRM BASE

ARC07.716 1A14 Q1+T12+SI2MS

ALPHAT(3) = -.300 BETAT (0) = 0.500

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.2804 -.2264 -.1803 -.2340 -.2321 -.2551

ALPHAT(4) = 3.080 BETAT (1) = -0.120

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.2091 -.2493 -.2877 -.3017 -.2991 -.3086

ALPHAT(4) = 3.910 BETAT (2) = -4.100

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1693 -.2329 -.2963 -.2974 -.2995 -.3035

ALPHAT(4) = 3.920 BETAT (3) = -.170

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1693 -.2337 -.2846 -.2423 -.2336 -.2574

ALPHAT(4) = 3.930 BETAT (4) = 4.130

SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000502.0000601.0000602.0000603.0000604.0000

.000 -.1776 -.2233 -.2371 -.2791 -.2513 -.2932



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-718 1A14 Q1+T12+S12NE3 ET + SHM BASE (MSY113)

ALPHAT(4) = 3.930 BETAT(5) = 0.200
SECTION(1)ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0003003.0000004.0000

.000 -.1912 -.2307 -.1830 -.2201 -.2237 -.2469

ALPHAT(5) = 0.120 BETAT(1) = -0.240
SECTION(1)ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1936 -.3053 -.2930 -.3032 -.2954 -.3120

ALPHAT(5) = 0.110 BETAT(2) = -4.130
SECTION(1)ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1820 -.2403 -.2994 -.3063 -.2911 -.3144

ALPHAT(5) = 0.110 BETAT(3) = -.210
SECTION(1)ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1723 -.2248 -.2311 -.2351 -.2445 -.2652

ALPHAT(5) = 0.140 BETAT(4) = 4.180
SECTION(1)ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.1721 -.2103 -.2333 -.2954 -.2733 -.2920

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03Y13)

ET + SHM BASE

ARC97-716 1A14 Q1+T12+SIGNES

ALPHAT(5) = 0.120 BETAT (5) = 0.300

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.0000 -.1947 -.2410 -.1976 -.2414 -.2365 -.2590



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083514) (18 JAN 74)

ET + 3PM BASE

ARC97-716 1A14 Q1+712+312M23

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

WHP = 2.4210 24.71. ZHP = 29.5600 INCHES
LHP = 26.7090 INCHES YHP = .0000 INCHES
RHP = 26.7090 INCHES ZHP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT(1) = -8.400 BETAT(1) = -7.920

SECTION (1) ET + 3PM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000801.0000802.0000803.0000804.0000

.000 -.1163 -.2028 -.1920 -.2134 -.2166 -.2151

ALPHAT(1) = -8.360 BETAT(2) = -3.920

SECTION (1) ET + 3PM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000801.0000802.0000803.0000804.0000

.000 -.1163 -.2040 -.1997 -.1983 -.2000 -.2022

ALPHAT(1) = -8.390 BETAT(3) = .150

SECTION (1) ET + 3PM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000801.0000802.0000803.0000804.0000

.000 -.1090 -.1896 -.1863 -.1964 -.1993 -.2074

ALPHAT(1) = -8.400 BETAT(4) = 4.130

SECTION (1) ET + 3PM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000801.0000802.0000803.0000804.0000

.000 -.1268 -.2161 -.1789 -.1930 -.2005 -.2000

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(MS3114)

ET + SRM BASE

ARC97-716 1A14 Q1-T12-S12M25

ALPHAT(1) = -0.420 BETAT(1) = 0.290
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
.000 -.1326 -.2031 -.1442 -.1471 -.1555 -.1588
ALPHAT(2) = -4.300 BETAT(1) = -7.900
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
.000 -.1180 -.2000 -.1741 -.1863 -.1919 -.1907
ALPHAT(2) = -4.290 BETAT(2) = -3.880
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
.000 -.1177 -.2176 -.1730 -.1976 -.1876 -.1900
ALPHAT(2) = -4.290 BETAT(3) = .080
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
.000 -.1202 -.2136 -.1733 -.1931 -.1888 -.1931
ALPHAT(2) = -4.290 BETAT(4) = 4.090
SECTION (1) ET + SRM BASE DEPENDENT VARIABLE CP
TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000
.000 -.1243 -.2034 -.1844 -.1823 -.1849 -.1866



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0833114)

ET + 3M BASE

ARC97-716 1A14 Q1-T12-S12M25

ALPHAT(2) = -4.290 BETAT (3) = 6.140

SECTION (1) ET + 3M BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.000 --.1279 --.1902 --.1356 --.1419 --.1485 --.1516

ALPHAT(3) = -.310 BETAT (1) = -7.920

SECTION (1) ET + 3M BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.000 --.1041 --.2055 --.1741 --.2020 --.2070 --.1970

ALPHAT(3) = -.300 BETAT (2) = -3.690

SECTION (1) ET + 3M BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.000 --.1113 --.2051 --.1729 --.1946 --.1975 --.1906

ALPHAT(3) = -.300 BETAT (3) = .070

SECTION (1) ET + 3M BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.000 --.1094 --.1974 --.1742 --.2064 --.2096 --.2043

ALPHAT(3) = -.300 BETAT (4) = 4.140

SECTION (1) ET + 3M BASE DEPENDENT VARIABLE CP

TAP NO 501.0000302.0000001.0000002.0000003.0000004.0000

.000 --.1122 --.1930 --.1915 --.1997 --.1980 --.1911

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(MSY14)

ET + SM BASE

ANC97-716 1A14 CR+T12+312NE3

ALPHAT(3) = -.853 BETAT (5) = 9.190

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.00000001.00000002.00000003.00000004.0000

.000 -.1000 -.1002 -.1349 -.1900 -.1514 -.1802

ALPHAT(4) = 3.900 BETAT (1) = -8.020

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.00000001.00000002.00000003.00000004.0000

.000 -.0871 -.1803 -.1804 -.2114 -.2136 -.2039

ALPHAT(4) = 3.900 BETAT (2) = -4.000

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.00000001.00000002.00000003.00000004.0000

.000 -.0889 -.1717 -.1799 -.2079 -.2101 -.2080

ALPHAT(4) = 3.900 BETAT (3) = .000

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.00000001.00000002.00000003.00000004.0000

.000 -.0871 -.1777 -.1740 -.2076 -.2096 -.2057

ALPHAT(4) = 3.900 BETAT (4) = 4.000

SECTION (1) ET + SM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.00000001.00000002.00000003.00000004.0000

.000 -.0906 -.1150 -.1733 -.2036 -.2059 -.2039



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083Y14)

ET + SEM BASE

ANC97-716 1A14 CL+TIER+SERIES

ALPHAT(4) = 4.000 BETAT(5) = 0.180
 SECTION (1) ET + SEM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.0909 -.1531 -.1406 -.1802 -.1776 -.1829

ALPHAT(5) = 0.280 BETAT(1) = -0.140

SECTION (1) ET + SEM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.0705 -.1522 -.1930 -.1845 -.1826 -.1755

ALPHAT(5) = 0.250 BETAT(2) = -4.030

SECTION (1) ET + SEM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.0742 -.1548 -.1896 -.2032 -.2084 -.1902

ALPHAT(5) = 0.270 BETAT(3) = .030

SECTION (1) ET + SEM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.0916 -.1340 -.1516 -.1646 -.1655 -.1615

ALPHAT(5) = 0.280 BETAT(4) = 4.110

SECTION (1) ET + SEM BASE DEPENDENT VARIABLE CP

TAP NO 201.0000302.0000001.0000002.0000003.0000004.0000

.000 -.0909 -.1341 -.1648 -.1900 -.2007 -.2004

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03Y14)

ET + SHM BASE

ARC97-716 1A14 CL+T12+SI2ME3

ALPHAT (S) = 0.310 SETAT (S) = 0.260

SECTION (1) ET + SHM BASE DEPENDENT VARIABLE CP

TAP NO 201 .0000302 .0000601 .0000602 .0000603 .0070604 .0000

.005 -.0013 -.1421 -.1895 -.1721 -.1702 -.1745



$$\text{BETAO (1)} = -7.920 \quad \text{BETAO (2)} = -4.300$$

SECTION 1 100R. ATTACH POINTS	DEPENDENT VARIABLE CP
1	100R
2	100R
3	100R
4	100R
5	100R
6	100R
7	100R
8	100R
9	100R
10	100R
11	100R
12	100R
13	100R
14	100R
15	100R
16	100R
17	100R
18	100R
19	100R
20	100R
21	100R
22	100R
23	100R
24	100R
25	100R
26	100R
27	100R
28	100R
29	100R
30	100R
31	100R
32	100R
33	100R
34	100R
35	100R
36	100R
37	100R
38	100R
39	100R
40	100R
41	100R
42	100R
43	100R
44	100R
45	100R
46	100R
47	100R
48	100R
49	100R
50	100R
51	100R
52	100R
53	100R
54	100R
55	100R
56	100R
57	100R
58	100R
59	100R
60	100R
61	100R
62	100R
63	100R
64	100R
65	100R
66	100R
67	100R
68	100R
69	100R
70	100R
71	100R
72	100R
73	100R
74	100R
75	100R
76	100R
77	100R
78	100R
79	100R
80	100R
81	100R
82	100R
83	100R
84	100R
85	100R
86	100R
87	100R
88	100R
89	100R
90	100R
91	100R
92	100R
93	100R
94	100R
95	100R
96	100R
97	100R
98	100R
99	100R
100	100R

[illegible]

07/x
0050.

$\gamma/\delta\omega$	
-0.107	-0.2273
-0.085	-0.0710
-0.064	-0.1234
-0.043	-0.1776
-0.021	-0.1092
0.000	-0.0904

ALPHA(1) = -7.900 BETA(3) = -.130

SECTION I - ATTACH POINTS

[illegible]

0555
57/2

7/84	
-.107	-.3309
-.003	-.2071
-.004	-.1929
-.043	-.1094



11111111

ARC57-71.6 1A14 Q1+112+512N25+AT111 Q18 ATTACH P15

ALPHAO(1) = -7.990 BETAO(9) = 7.760

SECTION (1) Q18. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0050	.1050	.1100	.1180	.1260	.1330	.7600	.7900	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.877											.8014	.8166	.1053	.0307	
-.896										.9800	.1908	.1767	.0693	-.00066	
-.834								.8566		.7933	.4227	-.1517	.1206	.0658	
-.813								.5361		.8708	1.2550	.3344	.0000	.0000	
-.192										.5103	.3690	.3309	.2867	.0943	
-.170										.3666	.3600	.3604	.5785	.3504	
-.149											.3429				-.3036
-.107											.2721	.3523	.2887	-.0762	-.2933
-.095						.8032	.5995				.2614	.2942	.2095	-.0945	-.3364
-.094						.9125	.4282	-.0694	-.2566		.2150	.2254	.1105	-.1269	-.3593
-.043		.8009	.8872			.9125	.4282	-.0694	-.2566		.2150	.2254	.1105	-.1269	-.3593
-.021		.7102	.9119	1.2310	-.2906	-.2245	-.2324				.1618	.1485	.0504	-.1080	-.3074
.000		.7365	.0000	.0000	.0000	-.1677					.1136	.0953	.0232	-.0961	-.0881

X/LB .8500

Y/BW															
-.107															
-.095															
-.084															
-.043															
-.021															
.000															

ALPHAO(2) = -4.020 BETAO(1) = -7.020

SECTION (1) Q18. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0050	.1050	.1100	.1180	.1260	.1330	.7600	.7900	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.877											-.1885	-.2273	-.2345	-.2443	
-.896										-.1332	-.2053	-.2541	-.1536	-.2248	
-.834								.1933		.1409	-.2748	-.1309	-.1432	-.2676	
-.813								.3440		.5650	.9688	.5718	.0000	.0000	
-.192								.4356		.0000	.5504	.5951	.5457	.1826	
-.170										.5136	.5653	.5951	.5704	.5226	
-.149											.5391				.1322
-.107											.4766	.5454	.5028	.0931	.0143
-.095											.4508	.5077	.4765	.1546	-.0397
-.094						.4715	.1956	-.1759	-.2664		.4250	.4639	.4368	.2553	.0319
-.043		.8996	.7022			.9372	-.0093	-.2613	-.1907		.3939	.4216	.4255	.2556	.0732
-.021		.7015	.7690	.8154	-.2684	-.1813	-.1441				.3612	.4067	.4053	.3412	.1807
.000		.6885	.6796	.0000	.0000	.0000	-.1001								

X/LB .8500



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 037

0031111

ARC97-716 1A14 Q1-T12-S12N3-A711 ORB ATTACH P16

ALPHA01 (2) = -4.020 BETA0 (1) = -7.920

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0500

Y/8W
 -.107 -.1802
 -.085 -.0036
 -.064 -.0704
 -.043 -.1576
 -.021 -.1325
 .000 -.0248

ALPHA01 (2) = -4.020 BETA0 (2) = -4.110

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0070 .0920 .1020 .1100 .1180 .1260 .1330 .7600 .7600 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
 -.277
 -.296
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000

.2998
 .1708
 .3080
 .3300
 .3644

-.0014
 .0097
 .3617
 .0000
 .3644

-.1026
 -.1890
 -.2963
 .6399
 .3959
 .4034
 .3681
 .3620
 .3634
 .3404
 .3151
 .2998

-.1568
 -.2378
 -.1438
 .4339
 .3959
 .4389
 .4452
 .4430
 .4213
 .3646
 .3451
 .3263

-.1999
 -.1364
 -.1024
 .0000
 .4382
 .4229
 .4029
 .3614
 .3329
 .3419
 .3172
 .2910

-.2365
 -.1957
 -.2800
 .0000
 .1174
 .3759
 .0299
 -.0938
 -.1033
 -.0173
 -.0276
 .1019

X/LB .0500

Y/8W
 -.107 -.2249
 -.085 -.0749
 -.064 -.1193
 -.043 -.1758
 -.021 -.1824
 .000 -.0742

ARCS7-716 1A14 CH+T12+SI2N2+AT11 ORB ATTACH PTS (083111)

ALPHA(2) = -4.030 BETAO (3) = -.140

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0970	.0950	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277											.0115	-.0207	-.0760	-.1620	
-.298									.0967		-.0482	-.0860	-.0823	-.1803	
-.234								.2231	.1862		-.1112	-.1434	-.0219	-.1873	
-.213								.2138	.2738	.3360	.4878				
-.192								.2635	.0070	.2683	.2683	.3231	.0000	.0000	
-.170									.2839	.0070	.3038	.3468	.3050	.0361	
-.149										.2839	.3144	.3555	.3233	.2873	
-.107											.3314	.3926	.3428	-.0471	-.0974
-.093							.6373	.3345	-.0240	-.2445	.3178	.3651	.3080	-.0135	-.2109
-.094							.7285	.8121	.1498	-.2654	-.2651	.3236	.2805	.0390	-.0902
-.043							.7736	.8895	-.9580	-.2871	-.2681	.2767	.2871	.2505	-.0181
-.021							.9204	.7833	.0000	.0000	.0000	.2702	.2411	.1926	-.0197
.000															

X/LB .8500

V/BW

-.107

-.3343

-.083

-.2096

-.064

-.1925

-.043

-.1895

-.021

-.1832

.000

-.1332

ALPHA(2) = -4.030 BETAO (4) = 3.780

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0970	.0950	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277										.4333	.1255	.1341	.0394	-.0100	
-.298									.5701	.6995	.1624	.0330	-.0127	-.0818	
-.234								.4827	.4957	.4065	.4065	-.2280	.1015	.0132	
-.213									.8857	.8036	1.3240	.3047	.0000	.0000	
-.192								.4535	.0000	.0000	.3504	.2979	.3035	.0690	
-.170									.3821	.2964	.2964	.3403	.4684	.2714	
-.149											.2797	.3403	.4684	.2714	-.3559
-.107											.2289	.2713	.1599	-.1818	-.3430
-.093							.7384	.4754	.1067	-.1443	.1932	.2149	.1117	-.1717	-.3513
-.094							.6379	.8482	.2922	-.1788	.1948	.1565	.0514	-.1808	-.2997
-.043							.7139	.9071	.11240	-.3103	.1205	.1091	.0266	-.0798	-.1469
-.021							.7212	.0000	.0000	.0000	.0974	.0865	.0404	-.0818	-.1089
.000							.4330	.0000	.0000	.0000					

X/LB .8500



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(083111)

ARC97-716 1A14 CR-T12-S12N5-AT11 CRB ATTACH PTS

ALPHA(1) = -4.030 BETA(1) = 3.760

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .8500

Y/8W
 -.107
 -.3706
 -.093
 -.3940
 -.064
 -.3579
 -.043
 -.2306
 -.021
 -.1993
 .000
 -.2413

ALPHA(2) = -4.040 BETA(2) = 7.760

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0070 .0920 .1020 .1100 .1180 .1260 .1330 .7000 .7900 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
 -.277
 -.296
 -.254
 -.213
 -.192
 -.170
 -.149
 -.107
 -.093
 -.064
 -.043
 -.021
 .000
 .3656
 .6620
 .6777
 .9235
 .9486
 .8140
 .6766
 .0000
 .4144
 .2489
 .1921
 .4376
 1.2590
 .4203
 .4071
 .3612
 .2871
 .2732
 .2267
 .1729
 .1287
 .2479
 .2184
 -.0909
 .3673
 .3967
 .3754
 .2969
 .2111
 .2311
 .1527
 .1012
 .1824
 .1426
 .2099
 .0000
 .2968
 .3717
 .0936
 .0801
 .1006
 .0000
 .0890
 .3354
 -.3163
 -.3009
 -.3506
 -.3735
 -.3863
 -.0922
 -.0919

X/LB .8500

Y/8W
 -.107
 -.093
 -.064
 -.043
 -.021
 .000
 .3656
 .6620
 .6777
 .9235
 .9486
 .8140
 .6766
 .0000
 .4144
 .2489
 .1921
 .4376
 1.2590
 .4203
 .4071
 .3612
 .2871
 .2732
 .2267
 .1729
 .1287
 .2479
 .2184
 -.0909
 .3673
 .3967
 .3754
 .2969
 .2111
 .2311
 .1527
 .1012
 .1824
 .1426
 .2099
 .0000
 .2968
 .3717
 .0936
 .0801
 .1006
 .0000
 .0890
 .3354
 -.3163
 -.3009
 -.3506
 -.3735
 -.3863
 -.0922
 -.0919

ALPHA (3) =	- .200	BETA (1) =	-7.920
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SECTION 1.10.02	ATTACH POINTS	DEPENDENT VARIABLE CP
1.10.02.01	1.10.02.01.01	1.10.02.01.01.01
1.10.02.02	1.10.02.02.01	1.10.02.02.01.01
1.10.02.03	1.10.02.03.01	1.10.02.03.01.01
1.10.02.04	1.10.02.04.01	1.10.02.04.01.01
1.10.02.05	1.10.02.05.01	1.10.02.05.01.01
1.10.02.06	1.10.02.06.01	1.10.02.06.01.01
1.10.02.07	1.10.02.07.01	1.10.02.07.01.01
1.10.02.08	1.10.02.08.01	1.10.02.08.01.01
1.10.02.09	1.10.02.09.01	1.10.02.09.01.01
1.10.02.10	1.10.02.10.01	1.10.02.10.01.01
1.10.02.11	1.10.02.11.01	1.10.02.11.01.01
1.10.02.12	1.10.02.12.01	1.10.02.12.01.01
1.10.02.13	1.10.02.13.01	1.10.02.13.01.01
1.10.02.14	1.10.02.14.01	1.10.02.14.01.01
1.10.02.15	1.10.02.15.01	1.10.02.15.01.01
1.10.02.16	1.10.02.16.01	1.10.02.16.01.01
1.10.02.17	1.10.02.17.01	1.10.02.17.01.01
1.10.02.18	1.10.02.18.01	1.10.02.18.01.01
1.10.02.19	1.10.02.19.01	1.10.02.19.01.01
1.10.02.20	1.10.02.20.01	1.10.02.20.01.01
1.10.02.21	1.10.02.21.01	1.10.02.21.01.01
1.10.02.22	1.10.02.22.01	1.10.02.22.01.01
1.10.02.23	1.10.02.23.01	1.10.02.23.01.01
1.10.02.24	1.10.02.24.01	1.10.02.24.01.01
1.10.02.25	1.10.02.25.01	1.10.02.25.01.01
1.10.02.26	1.10.02.26.01	1.10.02.26.01.01
1.10.02.27	1.10.02.27.01	1.10.02.27.01.01
1.10.02.28	1.10.02.28.01	1.10.02.28.01.01
1.10.02.29	1.10.02.29.01	1.10.02.29.01.01
1.10.02.30	1.10.02.30.01	1.10.02.30.01.01
1.10.02.31	1.10.02.31.01	1.10.02.31.01.01
1.10.02.32	1.10.02.32.01	1.10.02.32.01.01
1.10.02.33	1.10.02.33.01	1.10.02.33.01.01
1.10.02.34	1.10.02.34.01	1.10.02.34.01.01
1.10.02.35	1.10.02.35.01	1.10.02.35.01.01
1.10.02.36	1.10.02.36.01	1.10.02.36.01.01
1.10.02.37	1.10.02.37.01	1.10.02.37.01.01
1.10.02.38	1.10.02.38.01	1.10.02.38.01.01
1.10.02.39	1.10.02.39.01	1.10.02.39.01.01
1.10.02.40	1.10.02.40.01	1.10.02.40.01.01
1.10.02.41	1.10.02.41.01	1.10.02.41.01.01
1.10.02.42	1.10.02.42.01	1.10.02.42.01.01
1.10.02.43	1.10.02.43.01	1.10.02.43.01.01
1.10.02.44	1.10.02.44.01	1.10.02.44.01.01
1.10.02.45	1.10.02.45.01	1.10.02.45.01.01
1.10.02.46	1.10.02.46.01	1.10.02.46.01.01
1.10.02.47	1.10.02.47.01	1.10.02.47.01.01
1.10.02.48	1.10.02.48.01	1.10.02.48.01.01
1.10.02.49	1.10.02.49.01	1.10.02.49.01.01
1.10.02.50	1.10.02.50.01	1.10.02.50.01.01
1.10.02.51	1.10.02.51.01	1.10.02.51.01.01
1.10.02.52	1.10.02.52.01	1.10.02.52.01.01
1.10.02.53	1.10.02.53.01	1.10.02.53.01.01
1.10.02.54	1.10.02.54.01	1.10.02.54.01.01
1.10.02.55	1.10.02.55.01	1.10.02.55.01.01
1.10.02.56	1.10.02.56.01	1.10.02.56.01.01
1.10.02.57	1.10.02.57.01	1.10.02.57.01.01
1.10.02.58	1.10.02.58.01	1.10.02.58.01.01
1.10.02.59	1.10.02.59.01	1.10.02.59.01.01
1.10.02.60	1.10.02.60.01	1.10.02.60.01.01
1.10.02.61	1.10.02.61.01	1.10.02.61.01.01
1.10.02.62	1.10.02.62.01	1.10.02.62.01.01
1.10.02.63	1.10.02.63.01	1.10.02.63.01.01
1		

SECTION (1) DURS. ATTACH VOLUME

[illegible]

1/2 0300

0.107	-0.1400
-0.083	0.0191
-0.064	-0.0373
-0.043	-0.1340
-0.021	-0.1099
0.000	0.0076

$$\beta_{TAO}(2) = -4.100$$

DEPENDENT VARIABLE CP	ATTACH POINTS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

SECTION 1100B. ATTACH POINTS	
N/LB	
	.0950
	.1020
	.1100
	.1260
	.1330
	.7660
	.7960
	.8110
	.8190
	.8270
	.8350
	.8500

[illegible]

12/10 .0300



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2
ARC97-716 1A14 O1+T12+S12N5+AT11 CRB ATTACH PTS (R83111)

ALPHA(1 3) = -.200 BETA(1 2) = -4.100

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0300

Y/8W
-.107 -.2157
-.095 -.0820
-.084 -.1092
-.043 -.1706
-.021 -.1506
.000 -.0567

ALPHA(1 3) = -.210 BETA(1 3) = -.170

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0350 .1020 .1100 .1200 .1330 .7600 .7900 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
-.277
-.256
-.234
-.213
-.192
-.170
-.149
-.107
-.083
-.064
-.043
-.021
.000
-.2542
.2483
.2975
.3467
.3035
.3274
.3296
.3378
.3507
.3707
.3190
.2662
-.0993
-.0619
-.1941
-.2024
-.0910
-.0081
-.0352

X/LB .0300

Y/8W
-.107 -.3309
-.083 -.1843
-.064 -.1743
-.043 -.1901
-.021 -.1892
.000 -.1316

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

083111

ARC97-716 1A14 Q1-T18+312N5+AT11 QMS ATTACH PTS

ALPMAO(3) = -.210 BETAO(4) = 3.810

SECTION (1) QMB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.2312	.2123	.1417	.0696	
-.236										.5031	.1853	.1627	.1040	-.0059	
-.234										.7609	.4325	-.1156	.1892	.0702	
-.213											1.2770	.3577	.0000	.0000	
-.192								.5488		.6404	.4139	.3545	.3422	.0815	
-.170								.5001		.0000	.3627	.3520	.4030	.2661	
-.149										.3869					
-.107															
-.085											.2924	.3128	.1918	-.1392	-.3352
-.064											.2582	.2570	.1454	-.1472	-.3359
-.043											.2129	.1985	.0649	-.1376	-.2883
-.021											.1763	.1474	.0602	-.0507	-.1287
.000											.1574	.1264	.0691	-.0507	-.0569

X/LB .8580

Y/BW	
-.107	-.4010
-.085	-.4172
-.064	-.3821
-.043	-.2361
-.021	-.1782
.000	-.2103

ALPMAO(3) = -.210 BETAO(3) = 7.740

SECTION (1) QMB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.3978	.3799	.3143	.2175	
-.236										.6221	.5300	.2629	.2684	.1144	
-.234										.8760	.5010	.0325	.3459	.1826	
-.213											1.2740	.4616	.0000	.0000	
-.192								.6298		.9177	.9000	.4378	.3486	.1466	
-.170								.5711		.4748	.4755	.4461	.5963	.4126	
-.149											.4226				
-.107											.3307	.3919	.3077	-.0693	-.2988
-.085											.3171	.3343	.2318	-.0911	-.3283
-.064											.2741	.2634	.1310	-.1254	-.3359
-.043											.2169	.1839	.0482	-.0980	-.3157
-.021											.1716	.1307	.0342	-.0499	-.0407
.000															

X/LB .8580



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 643

ARC97-716 1A14 Q1+T12+SI2NE9+AT11 CRB ATTACH PTS

(083111)

ALPHA(3) = -.210 BETA(3) = 7.740

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0360

Y/GB
 -.107 -.4389
 -.095 -.4343
 -.084 -.4287
 -.043 -.3480
 -.021 -.2261
 .000 -.1708

ALPHA(4) = 3.640 BETA(4) = -7.880

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0370 .0930 .1080 .1100 .1260 .1330 .7680 .7680 .8040 .8110 .8180 .8270 .8350 .8900

Y/GB
 -.277
 -.236
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.083
 -.064
 -.043
 -.021
 .000

.4441
 .3202
 .5087
 .5279
 .5640
 -.0175
 -.1135
 -.1938
 .8449
 .5822
 .6086
 .5650
 .4794
 .4490
 .4249
 .4036
 .3916
 -.0656
 -.1528
 -.1626
 -.0399
 .8393
 .6200
 .5035
 .5556
 .4338
 .4809
 .4481
 .4049
 .4076
 .3993
 -.1673
 -.0707
 -.0734
 .0000
 .5035
 .5556
 .4338
 .4225
 .4049
 .4049
 .3766
 -.1849
 -.1739
 -.2131
 .0000
 .1306
 .3077
 .1842
 .0801
 .0007
 .0314
 .0731
 .2181

X/LB .0360

Y/GB
 -.107
 -.095
 -.084
 -.043
 -.021
 .000

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DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 CR+712+812MS+AT11 CRB ATTACH PTS (083111)

ALPHA(1) = 3.000 BETA(2) = -4.130

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0075	.1020	.1100	.1180	.1260	.1330	.7000	.7060	.8040	.8110	.8190	.8270	.8330	.8300
Y/BA															
-.277											.0187	-.0407	-.1152	-.1810	
-.296										.1200	-.1082	-.1836	-.0889	-.1901	
-.234										.1374	-.2124	-.0980	-.0155	-.1624	
-.213										.5423	.8038	.5479	.01000	.0000	
-.192										.4525	.4938	.5298	.3995	.0939	
-.170										.4752	.5060	.5165	.4583	.4029	
-.149											.4779	.4896	.3818	.0166	.0837
-.107											.4338	.4444	.3723	.0717	-.0110
-.083											.4151	.4175	.3626	.1643	-.0501
-.064											.3962	.3806	.3040	.1832	.0030
-.343											.3721	.3723	.3310	.2728	.0327
-.021											.3851				.1823
-.000															

X/LB .8300

Y/BA															
-.107															
-.083															
-.064															
-.043															
-.021															
-.000															

ALPHA(1) = 3.000 BETA(3) = -.100

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0075	.1020	.1100	.1180	.1260	.1330	.7000	.7060	.8040	.8110	.8190	.8270	.8330	.8300
Y/BA															
-.277											.1314	.0897	.0201	-.0748	
-.296										.1641	.0986	.0579	.0075	-.1185	
-.234										.2555	.0164	.0237	.0391	-.1282	
-.213										.2567	.4215	.3214	.0000	.0000	
-.192										.2894	.3098	.3214	.0000	.0372	
-.170										.2992	.3121	.3336	.2901	.0372	
-.149											.3164	.3315	.3061	.2441	
-.107											.3273	.3591	.2725	-.0980	-.1185
-.083											.3137	.3348	.2485	-.0619	-.2018
-.064											.2919	.2968	.2168	.0114	-.1089
-.043											.2713	.2591	.2108	.0375	-.0339
-.021											.2567	.2436	.2031	.1099	.0071
-.000															

X/LB .8300



ALPHA(1) = 3.920 BETA(3) = -.160

ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
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97	97
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99	99
100	100

07/8
0050

202/1

-107 -3393

-005 -1703

1000
1000

1503 - 600 -

-.021 -.2107

2017-1700

ALPHA (4) = 3.930 BETA (4) = 3.770

SECTION 11098. ATTACH POINTS

DEPENDENT VARIABLE CP

[illegible]

207

43-

●●●●●

234

433

613-

251.

04.5.-

64.

-107-

-000-

-000-

-043-

-021

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0300

2/22/4

-107

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-021

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ARC97-716 1A14 CR+T12+S12M2+AT11 ORB ATTACH PTS

(083111)

ALPHAO(1) = 3.040 BETAO (1) = 7.740

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.5256	.4914	.4266	.3016	
-.296									.7151		.4744	.4220	.3876	.2007	
-.234									.8461	.9498	.5671	.1757	.4480	.2354	
-.213										.9757	1.2750				
-.192								.7277	.8101	.0000	.5760	.5764	.0000	.0000	
-.170									.6461	.5601	.5591	.5259	.4052	.1779	
-.149											.5070	.5252	.6399	.4769	
-.107											.4044	.4651	.3591	-.0623	-.3054
-.085											.3904	.4052	.2906	-.0767	-.2910
-.064											.3410	.3284	.1886	-.1081	-.3606
-.043											.2869	.2391	.0944	-.6746	-.3503
-.021											.2348	.1796	-.0676	-.0358	-.0924
.000															

X/LB .8500

Y/BW
-.107
-.4833
-.085
-.4537
-.064
-.4440
-.043
-.3750
-.021
-.3342
-.000
-.1359

ALPHAO(1) = 8.040 BETAO (1) = -7.930

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277										.0273	-.0374	-.1417	-.1656	-.1893	
-.296										.1404	-.1042	-.1837	-.0591	-.1739	
-.234									.3037	.1404	-.1733	-.0321	-.0708	-.2140	
-.213								.4363	.4991	.5996	.6834				
-.192									.5176	.0000	.5803	.6395	.0000	.0000	
-.170										.5564	.6053	.6304	.5553	.1882	
-.149											.5597	.6134	.5700	.9320	
-.107											.4943	.5350	.4676	.1032	.1889
-.085											.4667	.5076	.4482	.1644	.0946
-.064												.4739	.4282	.2833	.0182
-.043												.4145	.4299	.2478	.0032
-.021												.4062	.3976	.2478	.1131
.000														.3520	.2597

X/LB .8500



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(883111)

ARC97-716 1A14 Q1-712-S12N5-A711 CRB ATTACH PTS

ALPHA(1) = 0.040 BETA(1) = -7.650

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .8500

Y/8W
-.187
-.089
-.064
-.043
-.021
.000

ALPHA(1) = 0.020 BETA(2) = -4.190

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0950 .1020 .1100 .1180 .1260 .1330 .7680 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
-.277
-.256
-.234
-.213
-.192
-.170
-.149
-.107
-.083
-.064
-.043
-.021
.000

X/LB .8500

Y/8W
-.107
-.085
-.064
-.043
-.021
.000

.0397 -.0331 -.0902 -.1729
-.0716 -.1663 -.0795 -.1495
-.1896 -.0076 -.0054 -.1532
.7176
.4966
.4343
.4403
.4680
.4637
.4401
.4242
.4052
.3786
.3677
.3538
.3424
.4051
.0863
.0015
-.0401
-.0251
-.0833
-.1904

.4948 .1977 -.1361 -.3279
.5567 .0374 -.3003 -.2707
.8229 -.2399 -.2209
.0000 .0000 -.1916

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 848

ARC97-716 1A14 Q1+T12+SI2H2+AT11 CR8 ATTACH PTS (WB3111)

ALPMAO(5) = 0.030 BETAO (3) = -.190

SECTION (1) CR8. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.1221	.0890	.0212	-.0748	
-.298										.1750	.0860	.0335	.0032	-.1239	
-.234									.2851	.2439	.0139	-.0030	.0459	-.1225	
-.213									.3266	.3667	.4773				
-.192								.2937	.3133	.0000	.3309	.3465	.0000	.0000	
-.170										.3246	.3415	.3577	.2863	.0336	
-.149											.3349	.3667	.3087	.2487	
-.107											.3322	.3540	.2827	-.0933	-.1105
-.085						.8271	.8399	-.0932	-.2930		.3143	.3230	.2340	-.0607	-.1709
-.064		.9838	.8986	.5946	.0780	-.3090	-.3376				.2951	.2907	.2046	.0196	-.0957
-.043		.6294	.8047	.8605	-.3213	-.3273	-.3033				.2712	.2543	.2076	.0503	-.0346
-.021		.4036	.6537	.0000	.0000	-.0000	-.2884				.2579	.2463	.2016	.1219	.0169
.000															
X/LB															
.8560															

Y/BW

-.107 -.2047
 -.085 -.1620
 -.064 -.1305
 -.043 -.1977
 -.021 -.2010
 .000 -.1363

ALPMAO(5) = 0.030 BETAO (4) = 3.840

SECTION (1) CR8. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.3457	.3175	.2676	.1731	
-.298										.5115	.3002	.2613	.2256	.0663	
-.234									.6135	.6890	.3726	.0835	.3015	.0833	
-.213								.5131	.5902	.7076	.9804	.3457	.0000	.0000	
-.192									.4806	.0000	.3336	.3062	.2294	.0364	
-.170									.3780		.3481	.3425	.3495	.2603	
-.149											.3296	.3425			
-.107											.2530	.2688	.1444	-.1623	-.3421
-.085				.4513	.8874	.0072	-.1956				.2251	.2158	.0933	-.1939	-.3494
-.064		.3981	.5467	.1511	-.2199	-.3519					.1922	.1654	.0443	-.1736	-.2916
-.043		.4537	.8369	.8036	-.3339	-.3150	-.3449				.1660	.1527	.0339	-.0816	-.1411
-.021		.8703	.4784	.0000	.0000	-.3136					.1517	.1140	.0304	-.0557	-.0839
.000															
X/LB															
.8500															

Y/BW

.8500



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R051111)

ARC97-716 1A14 OR+712+312N25+AT11 ORB ATTACH PTS

ALPHAO(5) = 0.050 BETAO (4) = 3.640

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0500

Y/8W
 -.107 -.3474
 -.083 -.3448
 -.084 -.3193
 -.043 -.2062
 -.021 -.1848
 .000 -.2228

ALPHAO(5) = 0.080 BETAO (5) = 7.600

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0670 .0950 .1020 .1100 .1200 .1330 .7600 .7900 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
 -.277
 -.296
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000

.7245
 .8453
 .8028
 .6356
 .5477

.5076
 .4705
 .5689
 1.2400
 .5477
 .5400
 .5069
 .4138
 .4003
 .3509
 .2933
 .2596

.4708
 .4118
 .1823
 .5268
 .5046
 .5193
 .4868
 .4090
 .3350
 .2484
 .1867

.4096
 .3737
 .4396
 .0000
 .3906
 .6202
 .3573
 .2897
 .1914
 .1037
 .0756

.2873
 .1830
 .2194
 .0000
 .1740
 .4446
 -.2826
 -.2816
 -.3248
 -.3483
 -.3393
 -.1172

X/LB .0500

Y/8W
 -.107 -.4097
 -.083 -.4303
 -.064 -.4236
 -.043 -.3892
 -.021 -.3291
 .000 -.1211

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OF POOR QUALITY

ARC97-716 1A14 01+T12+S12N25+AT11 ORB ATTACH PTS (R83112) (16 JAN 74)

REFERENCE DATA

SREF = 2.4210 50. FT. XGRP = 29.5600 INCHES
LREF = 30.7090 INCHES YGRP = .0000 INCHES
BREF = 30.7090 INCHES ZGRP = .0000 INCHES
SCALE = .0300 SCALE

MACH	=	2.200	ELEVON	=	.000
RUDDER	=	.000	SPDRK	=	.000

ALPHA(1) = -7.980 BETA(1) = -7.980

SECTION (1) ORG. ATTACH POINTS

X/LB	.0970	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/6W															
-.277											-.1553	-.1345	-.1524	-.1612	
-.296										-.0803	-.1656	-.2040	-.1779	-.1932	
-.234								.1438		.1517	-.1508	-.1370	-.1496	-.1804	
-.213								.2596		.4101	.5667				
-.192								.3403		.0000	.5330	.6566	.0000	.0000	
-.170								.4249		.5225	.6047	.7460	.3687		
-.149										.4969	.5819	.6535	.6304		
-.107															.3042
-.089											.5060	.5904	.6336	.3112	.1313
-.064				.4357	.4246	.1436	.0870			.4818	.5656	.6022	.3656	.1149	
-.043		.4821	.4649	.4767	.3207	.0966	.1296			.4246	.5251	.5551	.4249	.2246	
-.021		.5545	.5191	1.1090	.1031	.0855	.0979			.4056	.4767	.5211	.4259	.2710	
.000		.5301	.0000	.0000	.0000	.2220				.4151	.4697	.4637	.4640	.5489	

07/10 .0300

Y/024

-.107	.0349
-.003	.1440
-.004	.0745
-.043	.0391
-.021	.0911
.030	.1091

ALPHAO(1) = -7.970 BETA0 (2) = -4.070

SECTION (LONG. ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

[illegible]

DEPENDENT VARIABLE CP

0300
0350

2021: 0913:

0778
0300.

$$\text{BETAO}(3) = -.050$$

DEPENDENT VARIABLE CP

00815

07/18 .0300

Y/BW	
-.107	-.1224
-.003	-.0787
-.004	-.0634
-.043	-.0063

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03112)

ARC97-716 1A14 C1+T18+S12N25+AT11 ORB ATTACH PTS

ALPHA(1) = -7.960 BETA(1) = -.050

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0280

Y/BW
-.021
-.0471

ALPHA(1) = -8.000 BETA(1) = 3.900

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1080	.1100	.1180	.1260	.1330	.7860	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW	-.277														
-.296															
-.234															
-.213															
-.192															
-.170															
-.149															
-.107															
-.095															
-.064															
-.043															
-.021															
.000															

X/LB .0560

Y/BW
-.107
-.2409
-.095
-.2194
-.084
-.1879
-.043
-.1003
-.021
-.0003
-.000
-.0379



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+T12+SIZE3+AT11 ORB ATTACH PTS (M83112)

ALPHAO(1) = -8.030 BETA0(1) = 7.000

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0920	.1020	.1100	.1180	.1260	.1330	.7600	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW	-.277									.2587	.1111	.0481	.1023	
-.296								.6610		.3115	-.0610	.78	.0510	
-.234								.7665	1.0100	.8405	-.1543	.96	.0714	
-.213								.6266	1.1020	1.7150				
-.192								.5565	.0000	.3204	.2574	.0000	.0000	
-.170									.3172	.2161	.5423	.2867	.1901	
-.149										.4310	.3760	.7963	.4769	
-.107										.2672	.3642	.4020	.1410	-.0841
-.083										.2940	.3510	.3369	.1322	-.0542
-.064										.2851	.3102	.2303	.0802	-.0831
-.043										.2507	.2480	.1374	.0472	-.1029
-.021										.2024	.1923	.1043	.0596	-.0953
.000														-.1415

X/LB .8500

Y/BW	-.107	-.2160
-.083	-.1811	
-.064	-.1639	
-.043	-.1513	
-.021	-.0907	
.000	.0305	

ALPHAO(2) = -4.030 BETA0(2) = -7.960

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0920	.1020	.1100	.1180	.1260	.1330	.7600	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW	-.277									-.1425	-.1206	-.1362	-.1431	
-.296								-.0893		-.1571	-.1857	-.1593	-.1720	
-.234								.1336	.1439	-.1440	-.1420	-.1343	-.1627	
-.213								.2465	.3987	.5591				
-.192								.2231	.0000	.5116	.6139	.0000	.0000	
-.170								.3254	.4131	.4916	.5578	.6864	.3583	
-.149										.4663	.5364	.5992	.5696	
-.107										.4779	.5502	.5913	.2933	.3085
-.083										.4606	.5313	.5603	.3525	.1482
-.064										.4226	.5004	.5240	.4121	.1264
-.043										.4045	.4597	.4926	.4059	.2876
-.021										.4087	.4553	.4575	.4493	.2815
.000														.3533

X/LB .8500

ORIGINAL PAGE 13
OF POOR QUALITY

DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC57-716 1A14 Q1+712+512N25+AT11 ORB ATTACH PTS (R03112)

ALPHA(1) = -4.030 BETA(1) = -7.060

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .6500

Y/BW
 -.107 .0306
 -.085 .1500
 -.064 .0895
 -.043 .0508
 -.021 .1103
 .000 .1708

ALPHA(2) = -4.030 BETA(2) = -3.980

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0876 .0920 .1020 .1100 .1180 .1260 .1330 .7000 .7900 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW
 -.277 -.1297
 -.258 -.0844
 -.234 -.3304
 -.213 .5450
 -.192 .4014
 -.170 .4063
 -.149 .3980
 -.107 .4153
 -.085 .4007
 -.064 .3781
 -.043 .3467
 -.021 .3304
 .000 .3744
 .0306 .4898
 .1500 .2008
 .0895 .2389
 .0508 .2906
 .1103 .2910
 .1708 .3349
 .1828 .2929

X/LB .6500

Y/BW
 -.107 -.0309
 -.085 .0603
 -.064 .0372
 -.043 .0113
 -.021 .0379
 .000 .1116



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 655

ARCS7-716 1A14 CL+712+512NE3+AT11 CRB ATTACH PTS

(083112)

ALPHA(1) 2) = -4.040 BETA(1) 3) = -.080

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0920	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W	-.277										.0584	.0499	.0097	-.0466	
-.298									.1438		.0147	-.0040	.0036	-.0556	
-.234									.2184		.0096	-.0394	.0382	-.0463	
-.213								.2147	.2272		.4742	.3018	.0000	.0000	
-.192									.2849		.2815	.3256	.3023	.1224	
-.170									.2475		.2937	.3256	.3023	.1224	
-.149										.2671	.3047	.3418	.3281	.2906	
-.107															.0801
-.083											.3371	.3905	.3976	.1180	-.0545
-.064											.3310	.3779	.3716	.1386	-.0878
-.043											.3154	.3493	.3241	.1700	.0125
-.021											.2969	.3128	.3020	.1880	.1075
.000											.2849	.2984	.2818	.2314	.1428

X/LB .8500

Y/8W	-.107	-.1207	-.083	-.0828	-.064	-.0853	-.043	-.0248	-.021	-.0037	.000	.0331
-.107												
-.083												
-.064												
-.043												
-.021												
.000												

ALPHA(1) 2) = -4.050 BETA(1) 4) = 3.830

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0920	.1020	.1100	.1180	.1260	.1330	.7880	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W	-.277										.1880	.0578	.0405	.0304	
-.298									.3085		.1878	-.0997	.0180	.0029	
-.234									.7817		.8828	-.1342	.0583	.0418	
-.213								.4825	.8014		1.5720	.3044	.0000	.0000	
-.192									.8014		.3321	.4104	.3728	.1729	
-.170									.4470		.2721	.4104	.3728	.1729	
-.149										.2888	.3052	.3293	.3533		
-.107														-.1278	
-.083											.2961	.3261	.2170	.0041	-.1175
-.064											.2694	.2823	.2079	-.0001	-.1281
-.043											.2306	.2383	.1871	.0078	-.1214
-.021											.1867	.1896	.1357	.0480	-.0297
.000											.1714	.1878	.1303	.0598	.0308

X/LB .8500

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OF POOR QUALITY

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC57-716 1A14 Q1+712+312MS-A711 Q18 ATTACH PTS (003112)

ALPHA(3) = -.200 BETA(1) = -7.940

SECTION (1) Q18. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	Y/GB	.0070	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
-.277	-.277											-.1073	-.1100	-.1028	-.1088	
-.296	-.296										-.0630	-.1301	-.1326	-.1144	-.1362	
-.234	-.234								.1634	.1367	.1367	-.1425	-.1009	-.0989	-.1369	
-.213	-.213								.2492	.2735	.4183	.5602	.6137	.0000	.0000	
-.192	-.192								.3372	.0000	.5109	.5012	.5693	.6620	.3469	
-.170	-.170								.4185	.4185	.4735	.5325	.6017	.5628		.3090
-.149	-.149										.4752	.5562	.5960	.2904	.1491	
-.107	-.107										.4564	.5379	.5700	.3339	.1253	
-.085	-.085										.4029	.5080	.5317	.4200	.2389	
-.064	-.064										.3640	.4723	.5030	.3903	.2539	
-.043	-.043										.3700	.4669	.4690	.4582	.3666	
-.021	-.021															
.000	.000															

X/LB .8500

Y/GB	.0856	.1860	.0847	.0467	.1030	.2131
-.107	-.107					
-.085	-.085					
-.064	-.064					
-.043	-.043					
-.021	-.021					
.000	.000					

ALPHA(3) = -.200 BETA(2) = -4.030

SECTION (1) Q18. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	Y/GB	.0070	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
-.277	-.277											-.0852	-.0744	-.0914	-.1080	
-.296	-.296										.0192	-.0751	-.1386	-.0948	-.0944	
-.234	-.234								.1847	.1435	.1435	-.1247	-.0913	-.0693	-.1190	
-.213	-.213								.2766	.4203	.7179	.4310	.4697	.0000	.0000	
-.192	-.192								.2832	.0000	.4371	.4759	.4976	.2350		
-.170	-.170								.3270	.3683	.4330	.4620	.4838	.4512		.1724
-.149	-.149										.4110	.4638	.4547	.1783	.0672	
-.107	-.107										.3800	.4410	.4328	.2142	.0467	
-.085	-.085										.3678	.4050	.3991	.2712	.1286	
-.064	-.064										.3465	.3696	.3841	.2621	.1787	
-.043	-.043										.3382	.3605	.3610	.3213	.2338	
-.021	-.021															
.000	.000															

X/LB .8500

7864	- .107	- .1300
	- .003	- .0009
	- .004	- .0474
	- .043	- .0349
	- .021	- .0193
.000		.0199



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 C1+712+SIENE3+AT11 ORB ATTACH PTS (083112)

ALPHA(1,3) = -.210 BETA(1,4) = 3.680

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0920	.1020	.1100	.1180	.1260	.1330	.7600	.7900	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277											.1978	.0841	.0839	.0888	
-.298										.5493	.2203	-.0809	.0344	.0321	
-.234										.8273	.6927	-.1425	.0845	.0724	
-.213										.6216	1.5230	.2834	.0500	.0000	
-.192								.3006		.9180	.3403	.4095	.3788	.1782	
-.170								.4759		.0000	.2498	.3783	.6369	.3758	
-.149								.3135		.3135	.3190				
-.107											.3037	.3498	.2425	.0123	-.1183
-.085											.2710	.3019	.2256	.0030	-.1079
-.064											.2920	.2516	.1797	.0106	-.1270
-.043											.1944	.2001	.1438	.0425	-.1302
-.021											.1664	.1733	.1348	.0821	-.0364
.000															.0530

X/LB .8500

V/BW	
-.107	-.2328
-.085	-.2120
-.064	-.1841
-.043	-.1390
-.021	.0580
.000	-.0313

ALPHA(1,3) = -.220 BETA(1,5) = 7.680

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0920	.1020	.1100	.1180	.1260	.1330	.7600	.7900	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277											.3158	.1773	.0892	.1337	
-.298										.7072	.3655	-.0074	.0505	.0785	
-.234										.8010	.8823	-.1185	.0598	.1034	
-.213								.6468		1.1750	1.6550				
-.192								.5724		.0000	.3214	.2682	.0000	.0000	
-.170								.3123		.3123	.2172	.4937	.2494	.1659	
-.149											.4384	.4100	.7803	.4494	
-.107											.2209	.2903	.3300	.0734	-.1291
-.085											.2335	.3169	.3250	.1078	-.0947
-.064											.2325	.3026	.2531	.0814	-.1017
-.043											.2256	.2472	.1588	.0853	-.1108
-.021											.1998	.1869	.0980	-.0104	-.1393
.000															.0443

X/LB .8500

(083112)

ARC97-716 1A14 Q1-T12-S12N2-A711 QRB ATTACH PTS

ALPHAO(3) = -.220 BETAO (3) = 7.060

SECTION (1) QRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0300

Y/8W
 -.107 -.2463
 -.093 -.2149
 -.084 -.1845
 -.043 -.1608
 -.021 -.1341
 .000 .0955

ALPHAO(4) = 3.950 BETAO (4) = -9.020

SECTION (1) QRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0920 .1020 .1100 .1260 .1330 .7060 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
 -.277
 -.236
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.093
 -.084
 -.043
 -.021
 .000

-.0866 -.0866 -.0855 -.0707
 -.0496 -.1008 -.0409 -.0761
 -.0968 -.0226 -.0360 -.1002
 .7753
 .5261 .6337 .0000
 .2092 .6032 .6594 .3317
 .0179 .5261 .0000 .0000
 .2561 .3676 .6032 .6253 .5920
 .4192 .4931 .5366 .6069 .2901
 .4912 .5663 .3749 .2596 .1734
 .4659 .5321 .5124 .1291
 .4462 .4961 .5052 .3796 .2119
 .4263 .4634 .4892 .3534 .2677
 .4194 .4577 .4619 .4382 .3638

X/LB .8500

Y/8W
 -.107 -.0965
 -.085 .1723
 -.084 .1121
 -.043 .0375
 -.021 .0027
 .000 .2139



ALPHA(1 4) = 3.930

11. Notes

07/8 .0300

$\gamma/\delta\omega$	-0.107	-0.1221
	-0.085	-0.0332
	-0.064	-0.0493
	-0.043	-0.0512
	-0.021	-0.0344
	0.000	0.0123

ALMAC (4) = 3.940

Section 11

X/LB	Y/8W	.0070	.0920	.1020	.1100	.1200	.1330	.7600	.7600	.8040	.8110	.8190	.8270	.8350	.8500
-.277										.6059	.2967	.1529	.1599	.1243	
-.296								.7114		.9023	.2894	-.0106	.1393	.0850	
-.234										.9023	.7641	-.0794	.1270	.1461	
-.213							.5620	.6946		.9609	1.6430		.0000	.0000	
-.192							.5392	.5392		.0000	.3611	.3550	.0000	.0000	
-.170										.3614	.3194	.4561	.3719	.2106	
-.149											.3780	.3920	.6093	.4252	
-.107															-.1035
-.095											.3336	.3717	.2599	.0872	-.1004
-.064											.3036	.3179	.2269	.0099	-.1203
-.043				.4030	.4803	.4486	.1054	-.0367			.2596	.2616	.1776	.0109	-.1284
-.021			.8678	.8343	.8343	.1096	.0659	.0140			.2174	.2056	.1375	.0366	-.0632
-.000		.0000	.0000	.0000	.0000	.0000	.0196				.1915	.1744	.1265	.0758	.0726

07/10 .0300

7/84	- .107	- .2246
	- .093	- .2039
	- .064	- .1919
	- .043	- .1410
	- .021	.0119
	.000	- .0090



DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1-T12-S12N2-A711 CRB ATTACH PTS (M83112)

ALPHA(4) = 3.940 BETA(5) = 7.820

SECTION (3) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0670	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											.3614	.2236	.1377	.1802	
-.236										.7664	.4331	.0314	.1421	.1203	
-.234									.6900	1.1400	.9182	-.0773	.1007	.1497	
-.213								.7276	.8731	1.2200	1.7120				
-.192									.6420	.0000	.3355	.3282	.0000	.0000	
-.170										.3587	.2360	.5313	.2987	.2000	
-.149											.5189	.4569	.7975	.4942	
-.107															-.1035
-.085											.2977	.3607	.4015	.1202	-.0676
-.064				.0817	.1442	.1904	.1801				.3019	.3723	.3645	.1451	-.0791
-.043		.0409	.1216	.1486	.2236	.1435	.0004				.2875	.2911	.1144	-.0889	
-.021		.1094	.1113	.7390	.0065	.0169	.0136				.2858	.2744	.1775	.0934	-.1186
.000	.0942	.1529	.0000	.0000	.0000	.0294					.2463	.2125	.1163	-.0127	.0224

X/LB .8500

Y/8W	
-.107	-.2314
-.085	-.1911
-.064	-.1647
-.043	-.1367
-.021	-.1242
.000	.1200

ALPHA(5) = 9.090 BETA(1) = -6.070

SECTION (3) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0670	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											-.0291	-.0376	-.0301	-.0340	
-.236										.0633	-.0161	-.0803	.0005	-.0376	
-.234									.3229	.2244	-.0815	.0147	.0056	-.0670	
-.213								.3950	.4341	.5487	.7992	.5330	.0000	.0000	
-.192									.4322	.0000	.4861	.4923	.5056	.4313	.2001
-.170										.4610	.4813	.5017	.4713	.4440	
-.149															.2641
-.107											.4080	.4347	.3930	.1999	.1979
-.085				.1344	.2632	.1210	.1388				.3946	.4234	.5915	.2308	.1345
-.064				.1479	.1439	.1391	.1271				.3646	.4082	.3960	.3034	.1642
-.043	.0424	.0799	.1479	.1439	.1391	.1271					.3790	.3964	.4060	.3022	.2079
-.021	.1035	.0696	.4642	.0041	.1036	.1276	.1021				.3641	.4026	.3691	.3693	.3482
.000	.1076	.1211	.0000	.0000	.0000										

X/LB .8500

ORIGINAL PAGE IS
OF POOR QUALITY

ABC97-716 1A14 Q1+Y12+S12N23+AT11 CRB ATTACH PTS

$$\text{ALPHA}(5) = 0.090 \quad \text{BETA}(1) = -0.070$$

SECTION 1102B. ATTACH POINTS

5/1/80 .0300

γ/mol	
-0.107	0.536
-0.089	0.1320
-0.064	0.0993
-0.043	0.0232
-0.021	0.0489
0.000	0.1967

$$\text{ALPHA} (9) = 9.000 \quad \text{BETA} (2) = -4.000$$

SECTION 1109B. ATTACHMENT POINTS

N/LB	.0070	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8130	.8190	.8270	.8350	.8430
Y/84															
-.877										.0654	.0361	.0006	-.0361		
-.896									.1592	.0061	-.0450	.0298	-.0190		
-.894								.3024	.1821	-.0649	.0270	.0578	-.0273		
-.813								.4175	.4651	.7441					
-.192							.3623	.4326	.0000	.4688	.5428	.0000	.0000		
-.170									.4635	.4993	.5335	.4990	.2411		
-.149										.4822	.5384	.5154	.4818		.8044
-.107															.1400
-.085										.4568	.5090	.4631	.1798		.1186
-.084				.1922	.8982	.1741	.0803			.4418	.4815	.4433	.2221		.1740
-.043	.1333	.1270	.2830	.8930	.8667	.1311	.0929			.4263	.4531	.4246	.2948		.2255
-.021	.1448	.1108	.7678	.7678	.1211	.1177	.0302			.4116	.4288	.4259	.3041		.3162
							.0784			.4060	.4261	.4135	.3780		

0500
07/18

Y/24	
-.107	-.0046
-.085	.1369
-.064	.1261
-.043	.0493
-.021	.0765
.000	.1670



$$\text{BETAO (3)} = 0.0000$$

SECTION 11008. ATTACH POINTS

DEPENDENT VARIABLE CP

[illegible]

0-1/2
Dec 6

0.000	-0.021	-0.0318	-0.0219	-0.0232	-0.1042
0.000	-0.043	-0.0424	-0.064	-0.085	-0.107
0.000	-0.000	-0.0161	-0.0318	-0.0424	-0.1042

$$\text{BETAO} (3) = 0.090$$

SECTION 1.10.8. ATTACH POINTS

DEPENDENT VARIABLE CP

[illegible]

0500

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1+712-S12N25+7111 QMB ATTACH PTS (083112)

ALPHA0(5) = 0.000 BETA0(4) = 3.940

SECTION (1) QMB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0300

Y/0W

-.107 -.2233
 -.095 -.2038
 -.084 -.1918
 -.043 -.1408
 -.021 -.0079
 .000 -.0225

ALPHA0(5) = 0.110 BETA0(5) = 7.940

SECTION (1) QMB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0970 .0950 .1020 .1100 .1180 .1260 .1330 .7980 .7980 .8040 .8110 .8180 .8270 .8350 .8500

Y/0W

-.277
 -.258
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000

.7734
 .9410
 .9143
 .6921
 .4127
 .4457
 .8866
 .8225
 1.1550
 1.2070
 .0000
 .4123
 .3324
 .3305
 .4008
 .5308
 .4463
 .5501
 .3875
 .3290
 .3200
 .3145
 .2742
 .2645
 .0919
 -.0124
 .0000
 .3280
 .7934
 .0000
 .4451
 .4202
 .3875
 .2137
 .1463
 .2208
 .1803
 .2252
 .0000
 .2417
 .9135
 -.0790
 -.0424
 -.0641
 -.0767
 -.1040
 -.0177

X/LB .0300

Y/0W

-.107
 -.085
 -.064
 -.043
 -.021
 .000

-.2222
 -.1798
 -.1938
 -.1989
 -.1195
 .1593



DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 687

ARC97-718 1A14 O1+712+312MS

ORB ATTACH PTS

(R83113) (18 JAN 74)

REFERENCE DATA

SRP = 2.4210 SQ.FT. XMRP = 29.5600 INCHES
 LREF = 38.7090 INCHES YMRP = .0000 INCHES
 BRP = 38.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.930 BETA(1) = -9.030

PARAMETRIC DATA

MACH = 1.950 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0930 .1020 .1100 .1180 .1260 .1330 .7860 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW

-.877
 -.836
 -.834
 -.813
 -.192
 -.170
 -.149
 -.107
 -.083
 -.064
 -.043
 -.021
 .000

-.2433
 -.0928
 -.0761
 -.0659
 -.0374
 -.0322
 -.0311
 -.0145
 -.0000
 -.0000
 -.0000
 -.0000
 -.0000

-.1943
 -.1600
 -.1506
 -.1308
 -.0760
 -.0319
 .1270
 -.0367
 -.0978
 -.0427
 .0050
 .0319

-.1092
 -.2141
 -.2134
 -.2097
 -.3474
 -.1309
 -.2532
 .0303
 .0660
 .0462
 -.0566
 -.0022

-.2831
 -.2789
 -.3292
 -.4014
 -.4047
 -.3577
 -.2729
 -.1854
 -.1151
 -.0427
 -.0293
 -.0235

X/LB .8560

Y/BW

-.107
 -.093
 -.084
 -.043
 -.021
 .000

-.3887
 -.2540
 -.1909
 -.1749
 -.1929
 -.1834

ALPHA(1) = -7.930 BETA(2) = -3.710

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0930 .1020 .1100 .1180 .1260 .1330 .7860 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW

-.877
 -.836
 -.834
 -.813
 -.192
 -.170
 -.149

-.2122
 -.1233
 -.1223
 -.1380
 -.0000
 -.0013

-.1100
 -.1227
 -.1331
 -.1314
 -.1093
 -.0325
 .0530

-.1730
 -.1884
 -.2059
 -.1314
 -.2208
 -.1771
 -.0995

-.2081
 -.2283
 -.2421
 -.3385
 -.3376
 -.2867

-.2250
 -.2610
 -.2971
 -.3932
 -.4224
 -.3919

DATE 27 JAN 79

(03113)

ORD ATTACH PTS

ARC97-716 1A14 Q1+T12+S12N23

$$\text{ALPHA}(1) = -7.940 \quad \text{BETA}(3) = .150$$

SECTION (1) OF 8. ATTACK POINTS

07/8 0500

2024

120.021 - .2103

1961-0000

$$\text{ALPHA} (1) = -7.900 \quad \text{BETA} (4) = 4.220$$

SECTION 1100B. ATTACH POINT

1/2	.0670	.0950	.1020	.1100	.1180	.1260	.1330	.7660	.7960	.6040	.6110	.6190	.6270	.6350	.6500
-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

2007

15

3

Figure 1

11

613.0

●

0411

66

-107-

-005

303

→.043

130

07/08 0.0300

2004

-187

1003

CO-2

33

-043-

- 126 -

DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

ARC97-716 1A14 Q1+T12+SI2NES (R83113)

ALPHAO(1) = -7.000 BETAO(1) = 0.150

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0950	.1020	.1100	.1160	.1260	.1330	.7000	.7000	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											.0483	-.0145	-.0376	-.0025	
-.296										.0416	-.0060	-.0672	-.0193	.0678	
-.234								.0679	-.0105		-.0736	-.0666	.0812	.0601	
-.213								.1042	.0063	-.0890	-.1267				
-.192									-.0033	.0000	-.0679	.1452	.0362	-.1080	
-.170										-.1528	.0463	.1253	-.0836	-.2236	
-.149											.0808	.0303	-.1921	-.3835	
-.107											-.0505	-.1225	-.2661	-.3695	-.4340
-.085					.1515	.2905	.2661				-.0926	-.1376	-.2462	-.3436	-.4263
-.064				.1702	.2635	.2372	.1322				-.1154	-.1484	-.2291	-.3114	-.3695
-.043		.2040	.1259	.1702	.2635	.2372	.1322				-.1417	-.1551	-.2136	-.2741	-.2932
-.021		.1744	.1303	.1822	.2571	.2691	.1569				-.1565	-.1588	-.2023	-.2408	-.2048
.000		.1744	.1303	.1822	.2571	.2691	.1569								

X/LB .8500

Y/BW	
-.107	-.4125
-.085	-.4149
-.064	-.4199
-.043	-.3419
-.021	-.2945
.000	-.3319

ALPHAO(2) = -4.000 BETAO(2) = -7.070

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0957	.1020	.1100	.1180	.1260	.1330	.7000	.7000	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277											-.1214	-.1194	-.1428	-.1547	
-.296										-.0779	-.1402	-.1534	-.1936	-.2105	
-.234								-.0015	-.0449		-.1405	-.1910	-.2597	-.2723	
-.213										-.0083	-.0983				
-.192								-.1638	-.0143	-.0083	-.0584	-.1797	-.3154	-.4015	
-.170									-.0486	.0070	.0415	-.1232	-.3055	-.4112	
-.149											.1493	-.0252	-.2417	-.3684	-.2807
-.107											.0372	.1391	.0375	-.0999	-.1926
-.085					.2116	.1250	.0403				-.0723	.0787	.0784	-.0199	-.1230
-.064		.3229	.2702	.1908	.0818	.0044					-.0366	-.0508	.0586	.0437	.0487
-.043		.2033	.2324	.2919	.2465	.1450	.0400				.0079	-.0455	-.0219	.0003	-.0109
-.021		.1839	.1824	.0000	.0000	.0933					.0517	-.0056	-.0541	-.0454	.0023
.000															

X/LB .8500



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

085113)

ONE ATTACH PTS

ARC97-716 1A14 CR+TIE-SIGNES

ALPHA(1) = -4.088 BETA(1) = -7.970

SECTION (1) ONE. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .8280

Y/SM
 -.107
 -.003
 -.004
 -.043
 -.021
 .000
 -.1576

ALPHA(2) = -4.088 BETA(2) = -3.670

SECTION (1) ONE. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0670 .0930 .1020 .1100 .1180 .1260 .1330 .7660 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/SM
 -.277
 -.296
 -.234
 -.213
 -.182
 -.170
 -.149
 -.107
 -.063
 -.064
 -.043
 -.021
 .000
 .8077
 .8280

-.0650 -.0778 -.0993 -.1002
 -.0910 -.1069 -.1312 -.1412
 -.1092 -.1402 -.1661 -.1761
 -.1118
 -.1016 -.1675 -.2865 -.3133
 -.0511 -.1691 -.3136 -.3529
 .0282 -.1146 -.2612 -.3740
 .0103 .0577 -.0401 -.1663
 -.0917 .0396 .0015 -.0996
 -.1029 -.0527 .0152 -.0341
 -.0739 -.0976 -.0344 -.0301
 -.0356 -.0623 -.1105 -.0744
 -.3227
 -.2502
 -.1824
 -.1800
 -.0734
 -.0522

Y/SM
 -.107
 -.003
 -.004
 -.043
 -.021
 .000
 .8077
 .8280

-.1750 .1822 .2491 .2912
 .2726 .2161 .2165 .2451
 .2934 .2754 .2099 .1760
 .2922 .2534 .0000 .1678
 .2434 .0000 .0000 .0000

(R03113)

ORB ATTACH PTS

ARC97-716 1A14 Q1-T12-S12M25

ALPHA01 (2) = -4.030 BETA0 (3) = .300

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277											-.0647	-.0870	-.1135	-.1379	
-.296										-.0609	-.0717	-.1032	-.1306	-.1693	
-.234									-.0665	-.0561	-.0787	-.1185	-.1609	-.2020	
-.213								-.0982	-.0638	-.0515	-.0833	-.1973	-.2487	-.2973	
-.192									-.0995	.0000	-.0793	-.1623	-.2841	-.3262	
-.170										-.0266	-.0591	-.1369	-.2824	-.3562	
-.149											-.0246			-.3919	
-.107											-.0309	.0126	-.0896	-.2204	-.2996
-.085						.2072	.2335	.2294			-.1105	-.0094	-.0481	-.1499	-.2240
-.064						.2217	.2406	.2244			-.1519	-.0796	-.0224	-.0765	-.1640
-.043			.2431	.2279	.2416	.2452	.2310	.1791			-.1443	-.1376	-.0228	-.0469	-.0942
-.021			.2402	.2365	.2416	.2452	.2310	.1791			-.1185	-.1372	-.1125	-.0815	-.0718
.000		.2332	.2292	.2000	.0000	.0000	.0000	.1900							

X/LB .8500

V/BW
-.107
-.3719
-.085
-.3375
-.084
-.2875
-.043
-.2190
-.021
-.2391
-.000
-.2194

ALPHA01 (2) = -4.030 BETA0 (4) = 4.120

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
-.277										.0066	-.0084	-.0546	-.0822	-.0289	
-.296									.0148	-.0404	-.0507	-.0986	-.0642	.0401	
-.234											-.0969	-.1019	.0084	.0391	
-.213								.0191	-.0383	-.0193	-.1214	.0402	-.0292	-.1481	
-.192									-.1006	.0000	-.0646	.0287	-.1382	-.2958	
-.170										-.1310	.0382	.0287	-.1382	-.2958	
-.149											.0637	-.0426	-.2248	-.3412	
-.107											-.0229	-.1239	-.2403	-.3345	-.3984
-.085						.1936	.2437	.2232			-.0376	-.1219	-.2132	-.2956	-.3482
-.064						.2084	.2407	.2226			-.0527	-.1093	-.1836	-.2493	-.2813
-.043			.2200	.1757	.2406	.2442	.2345	.1708			-.0619	-.0915	-.1809	-.1784	-.2383
-.021			.2008	.1888	.2263	.2342	.2345	.1708			-.0636	-.0826	-.1509	-.2230	-.1744
.000		.1899	.1942	.0000	.0000	.0000	.1620								

X/LB .8500



DATE 27 JAN 73

(083113)

ORR ATTACH PTS

ARC97-716 1A14 C1+712+S12N23

$$\text{ALPHA}(1,2) = -4.030 \quad \text{BETA}(4) = 4.120$$

SECTION 11000. ATTACH POINTS

DEPENDENT VARIABLE CF

07/00 0050

Y/84	
- .107	- .3461
- .005	- .3531
- .064	- .3546
- .043	- .2842
- .021	- .2909
.000	- .3079

$$\Delta E_{\text{HOMO}}(2) = -4.02 \text{ eV} \quad \Delta E_{\text{LUMO}}(3) = 7.92 \text{ eV}$$

SECTION 1100B. ATTACH POINTS

[illegible]

8/19 .0360

$\gamma/\delta\gamma$	- .107	- .4010
	- .045	- .4047
	- .044	- .4087
	- .043	- .3373
	- .021	- .2746
	.000	- .3443

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 Q1-T12-S12N65

ORB ATTACH PTS

00031131

ALPHAO(3) = -.170 BETAO (2) = -3.930

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0380

Y/BA
 -.107 -.2916
 -.085 -.2346
 -.084 -.2031
 -.043 -.1793
 -.021 -.1948
 .000 -.1573

ALPHAO(3) = -.180 BETAO (3) = -.180

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0070 .0950 .1020 .1100 .1180 .1260 .1330 .7680 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/BA
 -.277
 -.256
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000
 .0099
 .0211
 .0211
 .0271
 .0395
 .0000
 .0103
 .0083
 .0156
 .0003
 .0093
 .0159
 .0556
 .0986
 .1147
 .1012
 .1127
 .1242
 .1316
 .1933
 .2422
 .2469
 .3141
 .4553
 .5533
 .6372
 .6399
 .6149
 .5309
 .4553
 .3533
 .2422
 .1933
 .1643
 .1643
 .1650
 .1759

X/LB .8360

Y/BA
 -.107 -.3129
 -.085 -.3131
 -.084 -.2750
 -.043 -.2081
 -.021 -.2255
 .000 -.2037

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 678

ARC97-716 1A14 Q8-T12-S12NE5
08931131

Q88 ATTACH PTS

ALPHAO(3) = -.800 BETA0(4) = 4.120

SECTION (3) Q88, ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
- .877											.0661	.0602	.1390	.1990	
- .898										.0963	.0308	.1024	.1613	.1270	
- .934								.0675	.0021	.0296	.0296	.1595	.1310	.0877	
- .813								.0896	.0032	-.0306	.1090	.1364	.0122	-.1108	
- .192								-.0901	.0000	.0955	.1555	.0661	-.1039	-.2143	
- .170											.0991	-.0227	-.1945	-.2975	
- .149															-.3081
- .107											-.0207	-.0953	-.2005	-.2794	-.3066
- .085											-.0312	-.0900	-.1675	-.2397	-.2784
- .084											-.0349	-.0803	-.1389	-.1866	-.2236
- .043											-.0569	-.0667	-.1149	-.1121	-.1782
- .021											-.0339	-.0617	-.1075	-.1650	-.1154
.000															

X/LB .8500

V/BW
- .107
- .2215
- .8430
- .085
- .8978
- .094
- .043
- .8324
- .021
- .8992
.000
- .8993

ALPHAO(3) = -.810 BETA0(9) = 8.000

SECTION (3) Q88, ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
V/BW															
- .877											.1240	.0644	.0770	.2153	
- .898										.1317	.0867	.0403	.1639	.1970	
- .934								.1357	.0677	.0072	.1249	.1776	.1575		
- .813								.1991	.0656	-.0106	.0201	.2321	.0921	-.0356	
- .192								-.0145	.0000	.1259	.1970	.1829	-.0269	-.1747	
- .170									-.0761		.1916	.0671	-.1394	-.2835	
- .149															-.3993
- .107											.0542	-.0713	-.2330	-.3451	-.3996
- .085											.0251	-.0967	-.2203	-.3220	-.3785
- .084											-.0077	-.1100	-.2096	-.2865	-.3287
- .043											-.0215	-.1147	-.1946	-.2903	-.2433
- .021											-.0541	-.1120	-.1811	-.1737	-.1373
.000															

X/LB .8500



FOR ATTACH PTS (R83113)

060.0 = 0.090
013. = (5) C.V.L.30
013. = (5) C.V.L.30

ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

07/08 .0300

7/84	-.107	-.3808
	-.085	-.3595
	-.064	-.3556
	-.043	-.3002
	-.021	-.2406
	.000	-.2959

$$\text{BETA0} (1) = -0.070$$

SECTION 11058 ATTACH POINTS
DEPENDENT VARIABLE CP

Y/84	X/L8	.0070	.0030	.1020	.1100	.1180	.1260	.1330	.7600	.7900	.8040	.8110	.8150	.8210	.8300
-.277												.0014	-.0336	-.0636	-.0696
-.296											.0239	-.0167	-.0672	-.1093	-.1146
-.254									.0503		.0245	-.0280	-.0909	-.1380	-.1681
-.213									.0700		.0298	-.0230			
-.182									.1010		.0000	-.0083	-.1396	-.2766	-.3307
-.170											.1216	.0665	-.1086	-.2756	-.3378
-.149											.1414	-.0356	-.2243	-.3293	-.2459
-.107											.2111	.1545	.0410	-.0708	-.1750
-.085											.1650	.1365	.0874	-.0049	-.1110
-.064					.1642	.1191	.0466	.2304			.1394	.1592	.1188	.0343	-.0363
-.043		.0675	.0962		.1435	.1603	.0800	.0313			.0968	.1358	.1441	.0166	.0045
-.021		.0379	.0672	.1237	.1899	.1340	.0671	.0671			.1044	.1181	.0957	.0541	.0792

0653' 11/2x

MA	
-.107	-.3082
-.085	-.2382
-.064	-.1957
-.043	-.1924
-.021	-.2028
.003	-.1157

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(N83113)

CR8 ATTACH PTS

ARC97-716 1A14 CR8+TIE+SIGNES

ALPHAO(4) = 3.910 BETAO(2) = -4.060

DEPENDENT VARIABLE CP

SECTION (1) CR8. ATTACH POINTS

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7800	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											.0726	.0429	.0124	-.0080	
-.256									.0879	.0816	.0584	.0154	-.0227	-.0361	
-.234								.1017	.1017	.0816	.0435	-.0153	-.0699	-.0719	
-.213								.1037	.1037	.0792	.0323	-.0806	-.1859	-.1749	
-.182								.1093	.1093	.0000	.0323	-.0876	-.2317	-.2283	
-.170										.1182	.0617	-.0876	-.2317	-.2283	
-.145											.1103	-.0512	-.2200	-.2728	
-.107											.1711	.1170	.0020	-.0956	-.2438
-.093											.1616	.1297	.0556	-.0203	-.1769
-.084											.1366	.1391	.0919	.0377	-.1263
-.043											.0944	.1374	.1331	.0351	-.0995
-.021											.0706	.1240	.1205	.0591	-.0079
.000															-.0573

X/LB .8500

Y/8W

-.107
-.2761
-.2413
-.093
-.1685
-.084
-.1706
-.043
-.1626
-.021
-.1394

ALPHAO(4) = 3.910 BETAO(3) = -.190

DEPENDENT VARIABLE CP

SECTION (1) CR8. ATTACH POINTS

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7800	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											.0622	.0414	.0196	.0042	
-.256									.0667	.0626	.0483	.0212	-.0055	-.0255	
-.234								.0757	.0626	.0354	.0354	-.0006	-.0425	-.0512	
-.213								.0743	.0622	.0622	.0262	-.0630	-.1284	-.1256	
-.182								.0763	.0622	.0000	.0199	-.0693	-.1872	-.1582	
-.170									.0764	.0764	.0275	-.0673	-.2209	-.2238	
-.145											.0486	-.0673	-.2209	-.2238	
-.107											.0896	.0323	-.0846	-.1986	-.2783
-.093											.0909	.0396	-.0412	-.1343	-.2090
-.084											.0633	.0470	-.0148	-.0627	-.1829
-.043											.0757	.0443	-.0143	-.0452	-.0990
-.021											.0718	.0500	.0096	-.0946	-.0476
.000															

X/LB .8500



DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83113)

ORB ATTACH PTS

ARC97-716 1A14 C1+712+512M25

ALPHA(4) = 3.910 BETA(3) = -.190

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .8360

Y/8W
 -.107 -.2417
 -.085 -.2891
 -.064 -.2776
 -.043 -.2255
 -.021 -.2534
 .000 -.2316

ALPHA(4) = 3.920 BETA(4) = 4.080

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0920 .1020 .1100 .1180 .1260 .1330 .7880 .8040 .8110 .8180 .8270 .8350 .8500

Y/8W
 -.277
 -.256
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000
 .1376
 .1194
 .1151
 .0901
 .1151
 .1165
 .1165
 .0000
 .2132
 .1670
 .0263
 -.1611
 -.2622
 -.2829
 -.2533
 -.2396
 -.2434
 -.2032
 -.1556
 -.1326
 .0634
 .0631
 .0634
 .0344
 .1376
 .0634
 .0344
 .1194
 .0901
 .1151
 .1356
 .2208
 .2937
 .2624
 .2237
 .1667
 -.0531
 -.1662
 -.2622
 -.2829
 -.2533
 -.2396
 -.2434
 -.2032
 -.1556
 -.1326
 .0634
 .0631
 .0634
 .0344
 .1376
 .0634
 .0344
 .1194
 .0901
 .1151
 .1356
 .2208
 .2937
 .2624
 .2237
 .1667
 -.0531
 -.1662
 -.2622
 -.2829
 -.2533
 -.2396
 -.2434
 -.2032
 -.1556
 -.1326

X/LB .8360

Y/8W
 -.107
 -.085
 -.064
 -.043
 -.021
 .000
 .1029
 .1893
 .2157
 .2048
 .2447
 .2805

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DATE 27 JAN 79 TABULATED PRESSURE DATA - 1A14B - VOL. 2

083133

ORB ATTACH PTS

ARC57-716 1A14 Q1+T12+S12M25

ALPHA(1) = 3.930 BETA(1) = 0.090

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0970	.0990	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											.2677	.3959	.4373	.3990	
-.296										.1932	.2637	.4075	.4083	.3504	
-.234								.2090	.1414	.1216	.3039	.4029	.3367	.3000	
-.213								.1415	.1216	.1216	.3498				
-.192								.0697	.0000	.0000	.3745	.3429	.1911	.0812	
-.170									.2236	.2236	.3649	.2611	.0538	-.0742	
-.149											.3016	.1461	-.0765	-.2034	
-.107															-.3009
-.085											.0201	-.0478	-.1948	-.2976	-.3002
-.064											-.0146	-.0695	-.1708	-.2642	-.2982
-.043											-.0393	-.0795	-.1441	-.2176	-.2691
-.021											-.0348	-.0821	-.1228	-.1770	-.1988
.000											-.0335	-.0791	-.1285	-.0602	-.1225

X/LB .8380

Y/8W	
.107	-.1825
-.085	-.1915
-.064	-.1908
-.043	-.1849
-.021	-.1413
.000	-.2285

ALPHA(1) = 0.040 BETA(1) = -0.170

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0970	.0990	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277										.0395	.0146	-.0200	-.0510	-.0655	
-.296										.0396	-.0022	-.0339	-.0934	-.1026	
-.234								.0644	.0396	.0435	-.0128	.0039	-.1437	-.1927	
-.213								.0717	.0783	.0435	-.0108	-.0086	-.1277	-.2597	-.3232
-.192									.0970	.0000	.0719	-.0920	-.2573	-.3585	
-.170										.1308	.1476	-.0175	-.2030	-.3290	
-.149															-.2378
-.107											.2332	.1789	.0693	-.0532	-.1822
-.085											.1976	.1945	.1160	.0174	-.0976
-.064											.1403	.1685	.1395	.0587	-.0209
-.043											-.0975	.1471	.1653	.0517	.0335
-.021											.1216	.1173	.1007	.0900	.1132
.000															

X/LB .8500



DATE 02 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83113)

ORB ATTACH PTS

ARC97-716 1A14 01-712-312N25

ALPHA(9) = 0.040 BETA(1) = -0.170

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

N/LB .0500

Y/0W
 -.107
 -.3037
 -.085
 -.2291
 -.094
 -.1793
 -.043
 -.1023
 -.081
 -.1057
 .000
 -.0906

ALPHA(9) = 0.023 BETA(2) = -4.120

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

N/LB .0070 .0950 .1020 .1100 .1180 .1260 .1330 .7600 .8040 .8110 .8190 .8270 .8350 .8500 .8500

Y/0W
 -.277
 -.256
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000
 .0551
 .0745
 .0900
 .1000
 .1100
 .1200
 .1300
 .1400
 .1500
 .1600
 .1700
 .1800
 .1900
 .2000
 .2100
 .2200
 .2300
 .2400
 .2500
 .2600
 .2700
 .2800
 .2900
 .3000
 .3100
 .3200
 .3300
 .3400
 .3500
 .3600
 .3700
 .3800
 .3900
 .4000
 .4100
 .4200
 .4300
 .4400
 .4500
 .4600
 .4700
 .4800
 .4900
 .5000
 .5100
 .5200
 .5300
 .5400
 .5500
 .5600
 .5700
 .5800
 .5900
 .6000
 .6100
 .6200
 .6300
 .6400
 .6500
 .6600
 .6700
 .6800
 .6900
 .7000
 .7100
 .7200
 .7300
 .7400
 .7500
 .7600
 .7700
 .7800
 .7900
 .8000
 .8100
 .8200
 .8300
 .8400
 .8500
 .8600
 .8700
 .8800
 .8900
 .9000
 .9100
 .9200
 .9300
 .9400
 .9500
 .9600
 .9700
 .9800
 .9900
 1.0000

N/LB .0500

Y/0W
 -.107
 -.3037
 -.085
 -.2291
 -.094
 -.1793
 -.043
 -.1023
 -.081
 -.1057
 .000
 -.0906

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DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R05113)

CRB ATTACH PTS

ARC97-710 1A14 Q1712+SIGNES

ALPHA(3) = 0.020 BETA(3) = -.230

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0090	.0100	.0120	.0140	.0160	.0180	.0200	.0220	.0240	.0260	.0280	.0300
V/BW													
-.277													
-.296													
-.234													
-.213													
-.192													
-.170													
-.149													
-.107													
-.085													
-.064													
-.043													
-.021													
.000													
X/LB													
.0300													
V/BW													
-.107													
-.085													
-.064													
-.043													
-.021													
.000													
X/LB													
.0300													
V/BW													
-.107													
-.085													
-.064													
-.043													
-.021													
.000													

X/LB .0300

V/BW

-.107
-.085
-.064
-.043
-.021
.000

ALPHA(3) = 0.020 BETA(4) = 4.070

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0090	.0100	.0120	.0140	.0160	.0180	.0200	.0220	.0240	.0260	.0280	.0300
V/BW													
-.277													
-.296													
-.234													
-.213													
-.192													
-.170													
-.149													
-.107													
-.085													
-.064													
-.043													
-.021													
.000													
X/LB													
.0300													
V/BW													
-.107													
-.085													
-.064													
-.043													
-.021													
.000													

X/LB .0300

V/BW

-.107
-.085
-.064
-.043
-.021
.000



R03114 (10 JAN 74)

ARC97-716 1A14 CR+712+512M5

PARAMETRIC DATA

REFERENCE DATA

REF = 2.4210 50.FT. XMRP = 29.5000 INCHES
 LREF = 30.7090 INCHES YMRP = .0000 INCHES
 BREF = 30.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

MACH = 2.200 ELEVON = .003
 RUDDER = .000 SPDRK = .000

ALPHA0(1) = -7.970 BETA0(1) = -7.030

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0090	.0100	.0120	.0100	.1100	.1180	.1260	.1330	.7000	.7060	.8040	.8110	.8190	.8270	.8350	.8500
V/BW	-.277																
-.296																	
-.234																	
-.213																	
-.192																	
-.170																	
-.149																	
-.107																	
-.085																	
-.064																	
-.043																	
-.021																	
.000																	

X/LB .0300

V/BW
 -.107
 -.0935
 -.0319
 -.064
 -.0272
 -.043
 -.0587
 -.021
 -.0104
 .000
 .0130

ALPHA0(1) = -7.980 BETA0(2) = -3.870

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0070	.0090	.0100	.1100	.1180	.1260	.1330	.7000	.7060	.8040	.8110	.8190	.8270	.8350	.8500
V/BW	-.277														
-.296															
-.234															
-.213															
-.192															
-.170															
-.149															



TABULATED PRESSURE DATA - 1A148 - VOL. 2

0833114

ORB ATTACH PTS

ARC97-716 1A14 Q1+T12+S12N25

ALPHA(1) = -7.960 BETA(2) = -3.870

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0470	.0930	.1020	.1100	.1180	.1260	.1330	.7600	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
	-.107														-.0932
	-.083														-.0276
	-.064														.0321
	-.043														.0444
	-.021														-.0008
	.000														.0171
															.0506

X/LB .8560

Y/BW

-.107
-.083
-.064
-.043
-.021
-.000
-.0475

ALPHA(1) = -7.960 BETA(3) = .120

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0470	.0930	.1020	.1100	.1180	.1260	.1330	.7600	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
	-.277														
	-.236														
	-.234														
	-.213														
	-.182														
	-.170														
	-.149														
	-.107														
	-.083														
	-.064														
	-.043														
	-.021														
	.000														

X/LB .8560

Y/BW

-.107
-.083
-.064
-.043
-.021
-.000

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

0831141

CR8 ATTACH PTS

ARC87-716 1A14 21+712+312N25

ALPHA011) = -7.980 BETA0 (3) = .120

SECTION (11088. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .6500

Y/8W
-.021
-.0077
.0000 -.0013

ALPHA011) = -7.980 BETA0 (4) = 4.040

SECTION (11088. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0950 .1020 .1100 .1180 .1260 .1330 .7880 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/8W
-.277
-.296
-.294
-.213
-.192
-.170
-.149
-.107
-.085
-.084
-.043
-.021
-.000
-.0958
-.0500
-.0727
-.0565
-.0129
-.0581
-.0264
-.0267
-.0017
-.0264
-.0242
-.0093
-.0337
-.0434
-.0635
-.0732
-.0455
-.1284
-.1600
-.0032
-.0814
-.1233
-.1676
-.0147
-.0511
-.1027
-.1463
-.0409
-.0318
-.0506
-.0799
-.1184
-.0482
-.0455
-.0492
-.0559
-.0821
-.0453
-.0516
-.0727
-.0547
-.0314

X/LB .6500

Y/8W
-.107
-.1803
-.089
-.1886
-.084
-.1735
-.043
-.1330
-.021
-.0948
-.0000
-.1172



$\beta_{10} = 0.030$ $\beta_{11} = 0.100$
 $\beta_{20} = 0.030$ $\beta_{21} = 0.100$

ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

[illegible]

0630.

10/24	- .107	- .2035
	- .095	- .2028
	- .064	- .2009
	- .043	- .1711
	- .021	- .1380
000		- .1052

DATA: Q1 = -4.090 BETA(1) = -7.790

INDEPENDENT VARIABLE	DEPENDENT VARIABLE CP
ATTACH POINTS	

[illegible]

1/2 050

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(003114)

ORB ATTACH PTS

ARC97-716 1A14 Q1+712+512N2

ALPHA(2) = -4.030 BETA(1) = -7.790

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0360

Y/BW
 -.107 -.0905
 -.089 -.0391
 -.084 .0220
 -.043 .0430
 -.021 -.0203
 .000 .0145

ALPHA(2) = -4.030 BETA(2) = -3.840

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0670 .0920 .1020 .1100 .1160 .1260 .1330 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW
 -.877
 -.896
 -.834
 -.813
 -.192
 -.170
 -.149
 -.107
 -.083
 -.064
 -.043
 -.021
 .000

Y/BW
 -.0710
 -.0598
 -.0590
 -.0462
 -.0351
 -.0231
 -.0041
 .0164
 -.0220
 -.0053
 .0364
 .0075
 -.0130
 -.0595
 -.0394
 .0424
 .0184
 .0237
 .0135
 .0091
 .0273

X/LB .0360

Y/BW
 -.107
 -.085
 -.064
 -.043
 -.021
 .000



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 690

ARC97-16 1A14 CR+T12+S12N25 (RB3114)

ALPHA(2) = -4.040 BETA(4) = 3.960

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0500

Y/BW

-.107 -.1937
 -.095 -.1918
 -.064 -.1803
 -.045 -.1451
 -.021 -.1027
 .000 -.1251

ALPHA(2) = -4.060 BETA(5) = 7.960

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1160	.1260	.1330	.7600	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-.277															
-.236															
-.234															
-.213															
-.192															
-.170															
-.149															
-.107															
-.085															
-.064															
-.043															
-.021															
.000															

X/LB .0500

Y/BW

-.107 -.2122
 -.095 -.2132
 -.064 -.2129
 -.043 -.1894
 -.021 -.1529
 .000 -.1086



DATE 27 JAN 79
TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R83114)

CRB ATTACH FTS

ABC07-796 1A:4 01+T12+S12N25

DATE: 11 OCT 68 PAGE: 10

ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

N/LB	.0070	.0090	.1020	.1100	.1180	.1260	.1330	.7000	.7900	.8040	.8110	.8190	.8270	.8350	.8300
V/8W															
-.277											-.0455	-.0709	-.1165	-.1366	
-.296									-.0649		-.0457	-.0796	-.1323	-.1670	
-.234								-.1286	-.0673		-.0349	-.0760	-.1313	-.1601	
-.213							-.1021	-.1344	-.0784		-.0349				
-.192								-.1346	.0000		-.0266	-.0192	-.1192	-.1477	
-.170									-.0844		.0163	.0367	-.0947	-.1526	
-.149											.0606	.1137	-.0374	-.1129	
-.107											.0026	.0152	.1275	.1043	-.0369
-.085											.0639	.0203	.0191	.1038	.0354
-.064				.0253	.0375	.1764	.2592								.1002
-.043		.0836	.0436	.0173	.0399	.1999	.2125					.0715	.0263	.0361	.0714
-.021	.1054	.0915	.0291	.0291	.0264	.1956	.2147				.0743	.0646	.0635	.0950	.0341
											.0601	.0642	.0401	.1193	.1231

0050
B1/X

Y/00A	
-.107	-.0026
-.095	-.0221
-.064	.0419
-.043	.0047
-.021	.0027
.000	.0490

$$\text{ALPHA} (1) = -1.00 \quad \text{BETA0} (2) = -3.000$$

SECTION : 11200	ATTACH POINTS	DEPENDENT VARIABLE CP
-----------------	---------------	-----------------------

X/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7860	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-277											-.0562	-.0427	-.0612	-.0947	
-278										-.0741	-.0415	-.0430	-.0787	-.1217	
-279										-.0690	-.0251	-.0406	-.0940	-.1360	
-284										-.0693	-.0097				
-213							-.0608								
-212							-.1010								
-192							-.1120			.0000	.0041	-.0184	-.1066	-.1630	
-170										-.0753	.0253	.0321	-.0940	-.1717	
-149											.0364	.0831	-.0590	-.1474	
-107															-.1037
-095											-.0545	-.0100	.0627	.0166	
-084				-.0176	.0776	.1090	.1369				-.0085	-.0366	-.0121	.0279	.0080
-043		-.0268	-.0352	.0129	.0989	.1179	.1198				.0356	-.0032	-.0391	-.0264	.0221
-021		-.0288	-.0256	.0439	.1076	.1097	.1049				-.0373	.0250	-.0087	.0005	-.0270
-001	.0486	-.0139	.0000	.0000	.0000		.0840				.0043	.0160	-.0101	.0282	.0187

07/11 .0500

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 002

ALPHAO(3) = -.100 BETAO(2) = -3.000

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0300

Y/BW
 -.107 -.1428
 -.085 -.0911
 -.084 -.0377
 -.043 .0010
 -.021 -.0209
 .000 -.0333

ALPHAO(3) = -.120 BETAO(3) = .040

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0370	.0930	.1020	.1100	.1180	.1260	.1330	.7880	.7980	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW	-.277														
	-.258														
	-.234														
	-.213														
	-.192														
	-.170														
	-.149														
	-.107														
	-.095														
	-.064														
	-.043														
	-.021														
	.000														

X/LB .0300

Y/BW
 -.107
 -.095
 -.084
 -.043
 -.021
 .000

ORB ATTACH PTS (RB3114)

ARC97-716 1A14 OL+712+812N23



TABULATED PRESSURE DATA - 1A14B - VOL. 2

(1283114)

CRB ATTACH P13

$$\beta_{AO}(S) = -.190 \quad \beta_{TAO}(S) = 0.040$$

ATTACH POINTS	DEPENDENT VARIABLE CP
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

0.300

1984	-0.107	-0.2148
	-0.085	-0.2175
	-0.064	-0.2177
	-0.043	-0.1913
	-0.021	-0.1635
1990	0.000	-0.1100

BETAO (4) =	3.950	BETAO (1) =	-7.910
---------------	-------	---------------	--------

ATTACH POINTS	DEPENDENT VARIABLE C ²
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
34	0.0000
35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
40	0.0000
41	0.0000
42	0.0000
43	0.0000
44	0.0000
45	0.0000
46	0.0000
47	0.0000
48	0.0000
49	0.0000
50	0.0000
51	0.0000
52	0.0000
53	0.0000
54	0.0000
55	0.0000
56	0.0000
57	0.0000
58	0.0000
59	0.0000
60	0.0000
61	0.0000
62	0.0000
63	0.0000
64	0.0000
65	0.0000
66	0.0000
67	0.0000
68	0.0000
69	0.0000
70	0.0000
71	0.0000
72	0.0000
73	0.0000
74	0.0000
75	0.0000
76	0.0000
77	0.0000
78	0.0000
79	0.0000
80	0.0000
81	0.0000
82	0.0000
83	0.0000
84	0.0000
85	0.0000
86	0.0000
87	0.0000
88	0.0000
89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

[illegible]

1

[illegible]

0300 07/08

$\gamma/\theta_{\text{eq}}$	$\gamma/\theta_{\text{eq}}$
-0.107	-0.0823
-0.089	-0.0330
-0.066	-0.0222
-0.043	0.0433
-0.021	0.0193
0.000	0.0497



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 698

(R03114)

ORB ATTACH PTS

ARC97-716 1A14 OR+T12+512N25

ALPHA(4) = 3.940 BETA(3) = .030

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .6300

Y/BW
 -.107 -.1404
 -.085 -.1242
 -.064 -.1081
 -.043 -.0920
 -.021 -.0759
 .000 -.0600

ALPHA(4) = 3.940 BETA(4) = 3.960

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0920 .1020 .1100 .1180 .1220 .1330 .7800 .7960 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW
 -.277
 -.256
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.095
 -.084
 -.043
 -.021
 .000
 .0511
 .0392
 .0237
 .0000
 .0717
 .0606
 .0763
 .0571
 .0813
 .1020
 .1282
 .0000
 .0832
 .1217
 .1517
 .0000
 .1089
 .1438
 .1695
 .1840
 .0550
 .1040
 .0924
 .0309
 -.0219
 -.0180
 .0112
 .0080
 -.0040
 -.0137
 -.0223
 -.0207
 -.0221
 .0866
 .0863
 .0473
 .0060
 .0061
 .1043
 .1296
 .0869
 .0338
 .0075
 -.0308
 -.0207
 .0000
 .0869
 .0967
 .0060
 .1443
 .1337
 .0197
 -.0564
 -.1372
 -.1300
 -.1324
 -.1089
 -.0501
 -.0718
 -.0381

X/LB .6300

Y/BW
 -.107 -.1404
 -.085 -.1242
 -.064 -.1081
 -.043 -.0920
 -.021 -.0759
 .000 -.0600



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 697

ARCS7-716 1A14 Q1+T12+312N25

(R83114)

CRB ATTACH PTS

ALPHA(4) = 5.930 BETA(5) = 0.020

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/8W															
-.277											.0880	.1067	.1399	.1210	
-.256										.0832	.1498	.1460	.1062	.0709	
-.234									.0801	.1781	.1482	.0973	.0419	.0487	
-.213								.0880	.1994	.1421	.0746	.0413	.2072	.1403	
-.192									.1535	.0000	.0029	.1841	.1742	.0442	
-.170										-.0217	-.0359	.2242	.0989	-.0995	
-.149											.0164				
-.127											-.0231	.0295	-.0476	-.1321	-.1630
-.105											-.0311	.0036	-.0324	-.1807	-.1874
-.084											-.0597	-.0369	-.0827	-.1195	-.1683
-.063											-.0912	-.0666	-.0710	-.1060	-.1432
-.041											-.0948	-.0739	-.0909	-.0907	-.0737
-.020															

X/LB .8580

Y/8W	
-.107	-.2077
-.085	-.2120
-.064	-.2122
-.043	-.1842
-.021	-.1456
.000	-.0963

ALPHA(5) = 0.090 BETA(1) = -0.020

SECTION (1) CRB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB	.0870	.0930	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8180	.8270	.8350	.8500
Y/8W															
-.277											.0496	.0450	.0479	.0337	
-.256										.0855	.0356	.0199	.0146	.0323	
-.234									.0833	.0781	.0330	-.0030	-.0228	-.0017	
-.213										.0916	.0489				
-.192								.0032	.0749	.0000	.0692	-.0119	-.0852	-.1089	
-.170									.0598	.1273	.1148	.0260	-.0835	-.1263	
-.149											.1638	.0714	-.0512	-.1147	
-.127															
-.105											.1143	.1668	.1069	.0367	-.0853
-.084											.0641	.1426	.1382	.0881	-.0259
-.063											.0600	.0947	.1382	.1892	.0719
-.041											.0795	.0770	.1127	.1345	.1181
-.020											.1022	.0930	.0742	.1415	.1536

X/LB .8590

DATE 27 JAN 73

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 098

(083114)

ORB ATTACH PTS

ARC97-716 1A14 Q1-T12-S12N25

ALPHA2(8) = 0.000 BETA0 (1) = -0.020

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0500

Y/BW
 -.107 -.0992
 -.033 -.0612
 -.064 -.0242
 -.043 -.0247
 -.021 -.0160
 .000 .0429

ALPHA2(9) = 0.060 BETA0 (2) = -4.000

SECTION (1) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

X/LB .0870 .0950 .1020 .1100 .1200 .1330 .7600 .7950 .8040 .8110 .8190 .8270 .8350 .8500

Y/BW
 -.277
 -.256
 -.234
 -.213
 -.192
 -.170
 -.149
 -.107
 -.085
 -.064
 -.043
 -.021
 .000

-.0997
 -.0829
 -.0629
 -.0396
 -.0335
 -.0199
 .0297
 .0498
 .0376
 .0216
 .0070
 .0444
 .0070
 .0273
 .0398
 .0734
 .0914

.0785
 .0273
 .0206
 .0070
 .0444
 .0070
 .0273
 .0398
 .0734
 .0914

.1421
 .1459
 .1435
 .1322
 .1363
 .1503
 .1639
 .1621
 .0871
 .0573
 .0871
 .1104
 .1286
 .1224
 .1270
 .1320
 .1322
 .1363
 .1503
 .1639
 .1621
 .0871
 .0573
 .0871
 .1104
 .1286

.0916
 .0805
 .0622
 .0228
 .0026
 .0190
 .1637
 .1717
 .1336
 .1616
 .1121
 .1544
 .0672
 .0426
 .0195
 -.0378
 -.0710
 -.0703
 -.0445
 .0099
 .0631
 .0958
 .1385
 .1575

X/LB .0500

Y/BW
 -.107
 -.085
 -.064
 -.043
 -.021
 .000

-.0748
 -.0421
 .0036
 .0246
 .0289
 .0969



DATE 27 JAN 73 TABULATED PRESSURE DATA - 1A14B - VOL. 2

(R03114)

ORB ATTACH PTS

ARC97-716 1A14 C8+712+512M25

ALPHA(5) = 0.080 BETA(3) = .000

SECTION (3) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

H/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8502
Y/BW															
-277											.0924	.0836	.0836	.0769	
-296										.0904	.0850	.0710	.0669	.0580	
-234									.0938	.0912	.0785	.0600	.0401	.0403	
-213								.0914	.0902	.0881	.0710				
-192									.0909	.0900	.0648	.0269	.0112	-.1541	
-170										.0912	.0643	-.1695	-.0084	.0032	
-149											.0698	.0160	-.0256	-.0138	
-107															-.0351
-085											.0974	.0946	.0415	-.0193	-.0591
-.064					.1180	.1598	.2035	.2211			.0871	.1041	.0768	.0232	-.0188
-.043			-.0389	.0012	.0855	.1834	.2223	.2291			.0874	.1032	.1046	.0771	.0151
-.021			-.0310	-.0256	.0567	.1463	.2142	.2306			.0536	.0768	.1211	.1206	.0538
.000	-.0842	-.0622	.0000	.0000	.0000	.0000	.2213				.0626	.0762	.0635	.1141	.1101

H/LB .8500

Y/BW
 -.107
 -.0448
 -.085
 -.0677
 -.084
 -.0810
 -.043
 -.0271
 -.021
 -.0209
 .000
 .0013

ALPHA(5) = 0.080 BETA(4) = 4.010

SECTION (3) ORB. ATTACH POINTS DEPENDENT VARIABLE CP

H/LB	.0870	.0950	.1020	.1100	.1180	.1260	.1330	.7680	.7960	.8040	.8110	.8190	.8270	.8350	.8500
Y/BW															
-277											.1047	.1237	.1278	.1136	
-296										.1139	.1369	.1220	.0916	.0858	
-234									.1211	.1436	.1133	.0751	.0593	.1189	
-213								.1288	.1563	.1068	.0578	.1052	.1878	.1173	
-192									.1142	.0000	.0285	.1783	.1448	.244	
-170										.0174	.0908	.1793	.0684	-.0535	
-149															-.1494
-107											.0864	.0711	-.0086	-.0909	-.1373
-.085					.0433	.0846	.0920	.0937			.0669	.0730	-.0728	-.0729	-.1157
-.064			.1114	.1194	.1127	.1233	.1272	.1139			.0732	.0443	.0047	-.0489	-.0831
-.043			.1841	.1531	.1529	.1527	.1459	.1341			.0470	.0385	.0117	-.0176	-.0592
-.021			.1687	.0000	.0000	.0000	.1423				.0441	.0383	-.0018	.0120	-.0183
.000	.1900														

H/LB .8500

ORIGINAL PAGE IS
 OF POOR QUALITY

(R03114)

CRB ATTACH PTS

APC97-716 1A14 C1+712+912+29

ALFAO(5) = 4.090 BETAO (4) = 4.010

SECTION 1109B. ATTACH POINTS

07/00 .0500

γ/θ_w	
-0.107	-0.1843
-0.093	-0.1487
-0.084	-0.1343
-0.043	-0.1023
-0.021	-0.0688
0.000	-0.0911

$$\text{ALPHA}(S) = 0.130 \quad \text{BETA}(S) = 0.080$$

SECTION (1) ORB. ATTACH POINTS

[illegible]

07/00 0050

γ/θ_{H}	-1.07	-1.033
	-0.08	-0.040
	-0.04	-0.032
	-0.03	-0.009
	-0.01	-0.004
	0.00	-0.002

DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 701

ARC97-716 1A14 ON-T12-S12M25-A131 ET ATTACH PTS.

(R53212) (10 JAN 74)

REFERENCE DATA

SRF = 2.4210 30-FT. YMRP = 29.5800 INCHES
 LRF = 30.7090 INCHES YMRP = .0000 INCHES
 BRP = 30.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -0.400 BETAT(1) = -0.100

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDBRK = .000

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

X/L	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.9160
PM1															
192.040				.5127	.5493	.5761	.6168								
196.360				.4694	.5270	.5626	.6156								
199.920			.4311	.4730	.5132	.5542	.6201								
193.460		.3977	.4309	.4646	.4990	.5487	.6303								
197.000	.3761	.4172	.0000	.0000	.0000	.0000	.6606								
200.540		.4024	-1.035	.0000	.0000	.0000	.6593								
204.080			.2366	.2314	.2644	.3370	.3984								
207.620				.2157	.2000	.1996	.2171								
222.040															
226.360															
229.920															
233.460															
237.000															
240.540															
244.080															
248.620															
337.670															

X/L	.9210	.9270	.9320	.9380	.9430	.9480
PM1						
234.040				.0796	-.1031	-.1140
237.960			.0635	-.0067	-.1360	-.1356
241.120		.0937	.0073	-.0790	-.1776	-.1609
244.080	.1313	.1652	.1161		-.2241	-.1936
248.620	.1696	.2312	.2676		-.2413	-.2098
251.740	.2036	.2543	.3467			
255.280		.2242	.2301	.0990	-.0653	
323.910				-.0743	-.1256	-.1745
327.030			-.0313	-.0623	-.1349	-.1797
330.960		-.0304	-.0321	-.0603	-.1332	-.1772
334.130	-.0363	-.0323	-.0323	.0000	-.1344	-.1772
337.670	-.0403	-.0313	-.0210		-.1323	-.1764
341.210	-.0229	-.0333	-.0299	.0000		
344.790		-.0326	-.0244	-.0613		

.1486
 -.0413

ARC97-716 1A14 2x+712+512M23-A711 ET ATTACH PTS.

(483212)

ALPHA7111 = -0.290 BETAT (2) = -4.110

SECTION 111 ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	.3910	.3970	.4020	.4080	.4130	.4190	.42	.4070	.4120	.4180	.4230	.4280	.4340	.4390	.4460
P_{w1}				.4580	.4376	.5310	.5771								
182.040				.4437	.4769	.5164	.5650								
186.360			.4012	.4243	.4365	.4922	.5455								
189.920		.3706	.3989	.4216	.4414	.4797	.5329								
193.480		.3493	.3743	.4020	.4220	.4500	.5436								
197.000		.3874	.4119	.4300	.4530	.4700	.5189								
200.540			.3061	.3137	.2426	.2693	.3108								
204.080				.3035	.2683	.2870	.3096								
207.620															
222.040															
226.360															
229.920															
233.480															
237.000															
240.540															
244.080															
248.600															
253.870															
X/LT	.4210	.4270	.4320	.4380	.4430	.4480									
P_{w1}				.1346	-.0637	-.0886									
234.040			.0834	.0207	-.1055	-.1267									
237.360		.1026	-.0038	-.0836	-.1344	-.1650									
241.120		.1850	.1373	-.2087	-.1767										
244.960		.1356	.3472	-.2364	-.1917										
248.800		.1395	.4716	.2274	-.0336										
251.740		.2484	.3882	-.0251	-.0925	-.1407									
255.280				.0225	-.0436	-.0990	-.1451								
323.310			.0114	.0132	-.0519	-.1088	-.1552								
327.030		.0022	.0095	.0056	.0000	-.1181	-.1636								
330.590		-.0022	.0102	.0043	-.1201	-.1674									
334.130		.0171	.0092	.0034	.0000										
337.670			.0093	.0021	-.0806										
341.210															
344.750															

.1830
-.0038

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 703

ARC97-716 1A14 C1+712+S12N2+AT11 ET ATTACH PTS.

(R63212)

ALPHAT(1) = -0.410 BETAT(5) = 0.040

SECTION (1) ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.8180	
Phi																
182.040				.3937	.4136	.4294	.4326									
186.300				.4011	.4172	.4397	.4606									
189.920			.3751	.3991	.4143	.4300	.4864									
193.400		.3195	.3643	.3934	.3988	.4446	.4893									
197.000	.2805	.3060	.0000	.0000	.0000	.0000	.4463									
200.540		.2979	-.1897	.0000	.0000	.0000	.4235									
204.080		.2967		.0000	.0000	.4034	.4169									
207.820				.6363	.3472	.4081	.4160									
222.840																
226.300																
229.820																
233.400																
237.000																
240.540																
244.080																
248.800																
337.670																

X/LT .9210 .9270 .9320 .9380 .9430 .9480

Phi

234.040				.1948	-.1325	-.1647
237.500			.4498	.2498	-.0906	-.1251
241.120		.4283	.4095	.2615	.0161	-.0914
244.680	.3061	.4230	.3678		-.0424	.0534
248.200	.3931	.4293	.4728		-.0733	-.0083
251.740	.3904	.4503	.5571			
255.280		.4611	.5436	.4243	.0715	
258.510				-.1003	-.1432	-.1821
267.030			-.0997	-.1230	-.1711	-.2049
330.590		-.0692	-.0839	-.1320	-.1821	-.2139
334.130	-.0958	-.0981	-.1010	.0000	-.1914	-.2217
337.670	-.1227	-.1088	-.0991		-.1978	-.2239
341.210	-.0836	-.1066	-.1062	.0000		
344.750		-.0703	-.0711	-.1172		

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ARC97-716 1A14 Q2+712+512N25+711 ET ATTACH PTS. (M83212)

ALPHAT (2) = -4.890 BETAT (3) = -.030

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

N/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.9180
PHI															
182.640				.3669	.3983	.4221	.4596								
186.380				.3600	.3875	.4165	.4510								
189.820			.3320	.3507	.3671	.3927	.4296								
193.480		.3195	.3326	.3468	.3628	.3749	.4015								
197.000	.2930	.3200	.0000	.0000	.0000	.0000	.4020								
200.540		.3166	-.1819	.0000	.0000	.0000	.4064								
204.090			.3288	.3566	.3379	.3459	.3795								
207.620				.3561	.3303	.3366	.3712								
222.640															
226.380															
229.820															
233.480															
237.000															
240.540															
244.080															
248.200															
252.670															

N/LT .9810 .9270 .9320 .9360 .9430 .9480

PHI

254.040															
257.580															
261.120															
264.680															
268.200															
271.740															
275.280															
278.510															
282.030															
285.590															
289.130															
292.670															
296.210															
300.750															

.0872 .0571 .0512
.1055 .0666 .0497
.1582 .1436 .0413
.2075 .0000 -.0500
.0352 .1452 .1982
.0000 -.1236
.0625 .0101 .0277
.2499
-.0018

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A14B - VOL. 2

ARC97-716 1A14 01-112-312N25+111 ET ATTACH PTS. (083212)

ALPHA(2) = -4.290 BETA(4) = 3.920

SECTION (1) ET ATTACH POINTS		DEPENDENT VARIABLE CP											
X/LT		.3910	.3970	.4020	.4080	.4130	.4190	.4240	.4300	.4360	.4420	.4480	.4540
Psi													
182.040					.3431	.3527	.3632	.3690					
186.360					.3458	.3470	.3666	.3675					
189.920				.3271	.3392	.3352	.3608	.3662					
193.480			.2913	.3234	.3184	.3260	.3527	.3672					
197.000	.2541		.2898	.0000	.0000	.0000	.0000	.3774					
200.340			.2822	-.1931	.0000	.0000	.0000	.3608					
204.080				.2987	.3026	.3051	.3456	.3434					
207.920					.5275	.2784	.3426	.3367					
212.040									.1619	.1394	.1143		
216.360								.1570	.1797	.1384	.1042		
219.920							.1226	.1863	.1954	.0886	.1366		
223.480						.0616	.1692	.2388	.2635	.0000	-.0142		
227.000						.0513	.0569	.2000	.2613	.0000	-.1032		
230.340							.0520	.1766	.0000	.1260	.0665	.0930	
234.080								.1136	.2137				.2982
238.920													-.0376

X/LT		.6210	.6270	.6320	.6380	.6430	.6480	
Psi								
234.040					.0616	-.0469	-.1760	
237.360				.3022	.1077	-.0829	-.1538	
241.120			.3349	.3004	.1434	-.0604	-.1128	
244.980	.3140		.3379	.3009		-.0946	-.0350	
248.800	.3048		.3408	.3651		-.1366	-.0599	
251.740	.2982		.3580	.4693				
255.280			.3709	.4512	.3345	.0287		
259.310					-.0675	-.1202	-.1672	
263.030				-.0214	-.0848	-.1383	-.1807	
266.900				-.0336	-.0358	-.0919	-.1425	-.1844
270.430	-.0487			-.0331	-.0354	.0000	-.1408	-.1805
273.670	-.0595			-.0288	-.0222	-.1317	-.1709	
276.210	-.0099			-.0219	-.0269	.0000		
279.730			-.0136	-.0196	-.0787			

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ARC97-719 1A14 Q1+T12+S12M25+AT11 ET ATTACH PTS.

(R03212)

ALPHA(1) = -.310 BETA(1) = -4.060

SECTION 111 ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	.3610	.3670	.4020	.4090	.4130	.4190	.4240	.4670	.4120	.4160	.4230	.4280	.4340	.4390	.4460
Phi															
100.040				.3112	.3431	.3623	.4360								
106.360				.2967	.3262	.3566	.4039								
109.900			.2746	.2970	.3217	.3596	.3931								
103.480		.2306	.2799	.3021	.3264	.3549	.3968								
107.000	.2331	.2820	.0000	.0000	.0000	.0000	.4039								
200.540		.2333	-.1711	.0000	.0000	.0000	.3687								
204.080			.2332	.2930	.2716	.2669	.2711								
207.620				.2960	.2602	.2966	.3030								
222.040															
226.360															
229.920															
233.480															
237.000															
240.540															
244.080															
248.600															
337.670															

X/LT .3610 .3670 .4020 .4090 .4130 .4190 .4240 .4670 .4120 .4160 .4230 .4280 .4340 .4390 .4460

Phi

234.040				-.0353	-.1223	-.1645									
237.560				-.0285	-.1503	-.1829									
241.120			.1010	-.0073	-.1174	-.1579									
244.680		.1606	.0748		-.1635	-.1327									
248.200	.2496	.2789	.2225		-.2199	-.1733									
251.740	.2936	.3653	.4366												
255.280	.3366	.4136	.5305												
258.800		.4822	.4760	.2608	-.0213										
262.310				-.0195	-.0631	-.1407									
265.830				-.0349	-.0959	-.1405									
269.350			.0363	-.0434	-.0973	-.1432									
272.870	.0003	.0033	.0030	.0000	-.1062	-.1466									
276.390	-.0073	-.0004	.0005		-.1108	-.1530									
279.910	.0111	-.0036	-.0073	.0000											
283.430		-.0065	-.0060	-.0700											

.2659
-.0120

ARC97-716 IAI4 CR+TIG+SI2MS+AT11 ET ATTACH P13.

(R83212)

ALPHA(3) = -.300 BETA(4) = 3.070

SECTION 111 ET ATTACH POINTS DEPENDENT VARIABLE CP

X/L	.9910	.9970	.4050	.4090	.4130	.4190	.4240	.4070	.4120	.4180	.4230	.4280	.4340	.4390	.4450
P11															
102.840				.2860	.3054	.3276	.3579								
109.360				.2924	.3076	.3364	.3629								
109.980			.2721	.2870	.2985	.3203	.3508								
133.480		.2342	.2613	.2750	.2867	.3148	.3454								
137.000	.2024	.2276	.0000	.0000	.0000	.0000	.3283								
200.940		.2163	-.1791	.0000	.0000	.0000	.3995								
204.080		.2227	.3063	.2718	.2850	.2870									
207.980			.3150	.2410	.2616	.3061									
222.840															
228.360															
229.980															
233.480															
237.000															
240.940															
244.080															
248.980															
337.870															

X/L	.9810	.9870	.9380	.9360	.9430	.9480
P11						
234.840				.0359	-.0643	-.1781
237.960			.3720	.1485	-.0804	-.1344
241.120		.3923	.3615	.1980	-.0353	-.0953
244.080	.3784	.3936	.3630		-.0777	-.0185
248.980	.3613	.4009	.4463		-.1114	-.0329
251.740	.3606	.4155	.3211			
253.880		.4221	.4959	.3509	.0377	
253.910				-.0117	-.0740	-.1273
257.070			.0451	-.0283	-.0913	-.1417
330.940		.0155	.0238	-.0439	-.0989	-.1478
334.130	-.0034	.0018	.0085	.0000	-.1089	-.1349
337.670	-.0137	-.0028	-.0007		-.1163	-.1612
341.810	.0039	-.0035	-.0095	.0000		
344.730		-.0065	-.0109	-.0670		



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 719

ARC07-719 1A14 CR+718-512MS

ET ATTACH PTS.

(083214) (10 JAN 74)

REFERENCE DATA

WREF = 2.4210 30.FT. WREF = 29.5600 INCHES
 LREF = 30.7000 INCHES WREF = .0000 INCHES
 BREF = 30.7000 INCHES WREF = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT(1) = -6.400 BETAT(1) = -7.950

PARAMETRIC DATA

MACH = 2.800 ELEVON = .000
 RUDDER = .000 SPDRBK = .000

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

X/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.6070	.6120	.6180	.6230	.6280	.6340	.6390	.6450
PH1				.4937	.5248	.5346	.5256								
182.840				.4937	.5248	.5346	.5256								
186.360				.4937	.5248	.5346	.5256								
189.920			.4003	.4365	.4665	.4844	.4800								
193.480		.3729	.4027	.4314	.4476	.4651	.4944								
197.000	.3943	.3901	.0000	.0000	.0000	.0000	.5646								
200.540		.3874	-.1734	.0000	.0000	.0000	.5911								
204.080			.2286	.2183	.2039	.2793	.3484								
207.620				.1959	.1815	.1876	.2213								
212.840															
220.360															
229.920															
233.480															
237.000															
240.540															
244.080															
248.620															
253.740															
259.800															
265.910															
272.030															
278.190															
284.390															
290.670															
297.070															

X/LT	.6610	.6670	.6730	.6790	.6850	.6910	.6970
PH1							
294.040							
297.560							
301.120							
304.680							
308.200							
311.740							
315.280							
318.810							
322.350							
325.890							
329.430							
332.970							
336.510							
340.050							
343.590							
347.130							
350.670							
354.210							
357.750							



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 717

(R33214)

ET ATTACH PTS.

ARC97-716 1A14 Q1+712+512N25

ALPHA(1) = -8.360 BETAT (2) = -3.920

SECTION (1) ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	3610	3970	4020	4080	4130	4190	4240	4870	4120	4180	4230	4340	4390	4160
Phi														
182.840				.4335	.4624	.4839	.4886							
186.360				.4180	.4433	.4653	.4704							
189.920			.3836	.3889	.4194	.4396	.4326							
193.480		.3567	.3823	.3955	.4040	.4245	.4587							
197.000	.3406	.3618	.0000	.0000	.0000	.0000	.4902							
200.540		.3562	-.1864	.0000	.0000	.0000	.4814							
204.080			.3069	.2906	.2185	.2469	.2830							
207.620				.2925	.2611	.2757	.3119							
222.840														
226.360														
229.920														
233.480														
237.000														
240.540														
244.080														
248.600														
252.740														
255.200														
259.510														
267.030														
270.590														
274.130														
277.870														
281.210														
284.750														

X/LT	4210	4270	4320	4380	4430	4480
Phi						
234.040						
237.580						
241.120						
244.660						
248.200						
251.740						
255.280						
259.510						
267.030						
270.590						
274.130						
277.870						
281.210						
284.750						

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(R83214)

ET ATTACH PTS.

ARCS7-716 1A14 C1+712+512N25

ALPHAT (1) = -0.390 BETAT (3) = .150

SECTION (1) ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	.3010	.3070	.4020	.4080	.4130	.4190	.4240	.4070	.4120	.4180	.4230	.4280	.4340	.4390	.4450
Phi															
182.040				.4161	.4350	.4472	.4450								
186.360				.4171	.4318	.4392	.4361								
189.920			.4032	.4144	.4190	.4222	.4215								
193.480		.3894	.4100	.4093	.3995	.4031	.4210								
197.000	.3456	.3694	.0000	.0000	.0000	.0000	.4300								
200.540		.3802	-.1029	.0000	.0000	.0000	.4404								
204.080			.3063	.4221	.3666	.3815	.4266								
207.620				.4663	.3646	.3602	.4212								
222.040															
226.360															
229.920															
233.480															
237.000															
240.540															
244.080															
248.600															
337.070															

X/LT	.46210	.46270	.46330	.46390	.46450	.46510	.46570	.46630	.46690	.46750	.46810	.46870	.46930	.46990	.47050
Phi															
234.040															
237.560															
241.180															
244.680															
248.200															
251.740															
255.260															
258.810															
262.310															
265.830															
269.350															
272.870															
276.390															
279.910															
283.430															
286.950															
290.470															
293.990															
297.510															
301.030															
304.550															
308.070															
311.590															
315.110															
318.630															
322.150															
325.670															
329.190															
332.710															
336.230															
339.750															
343.270															
346.790															



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 781

CT ATTACH PTS.

(R05214)

ARC07-716 1A14 CH+718+818MS

ALPHA (2) = -4.300 BETA (1) = -7.900

SECTION (1) CT ATTACH POINTS DEPENDENT VARIABLE CP

R/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.8460
P01				.4480	.4765	.4881	.4819								
182.840				.4191	.4425	.4522	.4448								
188.380				.3826	.3956	.4147	.4248								
189.820				.3403	.3739	.3963	.4163								
193.480				.3267	.3533	.3720	.3900								
197.000				.3419	.3645	.3800	.3900								
200.340				.2440	.2254	.2066	.1866								
204.080				.2100	.1748	.1356	.0926								
207.620															
222.840															
226.380															
229.920															
233.460															
237.000															
240.340															
244.080															
248.820															
337.670															

R/LT	.8610	.8270	.8320	.8390	.8430	.8480
P01						
234.840				.1170	.1223	.1226
237.380				.1044	.1039	.1026
241.120				.0877	.0822	.0770
244.860				.0693	.0621	.0577
248.820				.0577	.0516	.0467
251.740				.0435	.0377	.0324
255.820				.0341	.0284	.0230
323.310				.0018	.0006	.0000
327.030				.0006	.0000	.0000
330.980				.0000	.0000	.0000
334.130				.0000	.0000	.0000
337.670				.0000	.0000	.0000
341.810				.0000	.0000	.0000
344.730				.0000	.0000	.0000

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DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 722

ARC(97-716 1A14 01+712+512)N25

ET ATTACH PTS.

(003814)

ALPHA(1,2) = -4.200 BETA(1,2) = -3.600

SECTION (1) ET ATTACH POINTS

DEPENDENT VARIABLE CP

X/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.6070	.6120	.6180	.6230	.6280	.6340	.6390	.9160
Phi															
162.640				.3975	.3805	.4086	.4228								
166.380				.3903	.3674	.3937	.3934								
169.921			.3825	.3423	.3527	.3648	.3755								
193.480		.2909	.3211	.3448	.3395	.3410	.3703								
197.000	.2817	.2984	.0000	.0000	.0000	.0000	.3767								
200.340		.3047	-.1688	.0000	.0000	.0000	.3662								
204.080			.3015	.3158	.3083	.3076	.3237								
207.620				.3615	.2838	.3249	.3606								
222.640															
226.380															
229.921															
233.480															
237.000															
240.340															
244.080															
248.800															
337.670	.6210	.6270	.6320	.6380	.6430	.6480									
Phi															
234.040				-.0684	-.1079	-.1482									
237.560			.0089	-.0525	-.1013	-.1479									
241.120		.0495	.0234	-.0360	-.0882	-.1418									
244.680	.0729	.0331	.0301		-.0682	-.1421									
248.800	.0780	.0377	.0345		-.0210	-.1387									
251.740	.1061	.0780	.0582												
255.880		.0975	.0530	.0608	-.0544										
259.920				-.0447	-.0995	-.1522									
267.020		.0689	.0379	-.0580	-.1139	-.1616									
270.980			.0103	-.0371	-.1178	-.1609									
334.130	.6107	.0101	.0352	.0000	-.1206	-.1682									
337.670	.0112	.0108	.0036		-.1184	-.1655									
341.810	.0218	.0103	.0008	.0000											
344.750		.0101	.0005	-.0821											

-1006

.0076



ARC97-716 1A14 CR+T12+S12N25 ET ATTACH PTS. (R03214)

ALPHAT(2) = -4.290 BETAT(3) = .080

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

X/L Y	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.8450
Pa1				.3503	.3699	.3831	.3862								
182.840				.3421	.3628	.3775	.3800								
186.360				.3396	.3443	.3590	.3665								
189.920			.8184	.3319	.3354	.3470	.3512								
193.480		.8087	.3235	.0000	.0000	.0000	.3715								
197.000	.8980	.3157	.0000	.0000	.0000	.0000	.3626								
200.540		.3145	-.1743	.0000	.0000	.0000	.3648								
204.080			.3258	.3467	.3174	.3186	.3648								
207.620				.3534	.3022	.3116	.3514								
212.840															
216.360															
219.920															
223.480															
227.000															
230.540															
234.080															
237.620															

X/L Y	.8810	.8870	.8920	.8980	.9030	.9090	.9140
Pa1							
834.040							
837.560							
841.120							
844.680							
848.200							
851.740							
855.280							
858.910							
862.430							
865.950							
869.470							
872.990							
876.510							
880.030							
883.550							
887.070							
890.590							
894.110							
897.630							
901.150							
904.670							
908.190							
911.710							
915.230							
918.750							

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ARC97-718 1A14 Q1-T12-S12N23 ET ATTACH PTS. (083214)

ALPHA1 (2) = -4.280 BETAT (4) = 4.030

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

N/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.8480
Phi															
182.040				.3421	.3474	.3375	.3262								
186.380				.3496	.3421	.3356	.3346								
189.920			.3341	.3447	.3274	.3339	.3433								
193.480		.2962	.3288	.3221	.3196	.3356	.3584								
197.000	.2874	.2856	.0000	.0000	.0000	.0000	.3584								
200.540		.2830	-.1799	.0000	.0000	.0000	.3457								
204.080			.3019	.3609	.2779	.3291	.3310								
207.620				.5323	.2603	.3264	.3287								
222.840									.0610	.0433	.0274				
226.380									.0614	.0547	.0495				
229.920									.0533	.0000	.0000	.0576			
233.480									.0000	.0000	.0000	.0000			
237.000								.0499	.0506	.0000	.0000	.0000			
240.540								.0345	.0492	.0597	.0000	.0000			
244.080									.0499	.0557	.0000	.0000			
248.200									.0365	.0600	.0000	.0000			
337.870														.8339	
														-.0229	

N/LT	.9210	.9270	.9320	.9360	.9430	.9480
Phi						
234.040				.0317	-.0257	-.0809
237.580			.1350	.0565	-.0080	-.0748
241.120		.1742	.1519	.0745	.0005	-.0712
244.680	.2033	.1828	.1517		.0048	-.0714
248.200	.2224	.1998	.1682		.0759	-.0693
251.740	.2395	.2449	.2741			
255.280		.3043	.3347	.3008	.0211	
323.810				-.0653	-.1159	-.1687
327.030			-.0197	-.0835	-.1830	-.1755
330.590						
334.130	-.0270	-.0197	-.0330	-.0685	-.1366	-.1799
337.670	-.0829	-.0265	-.0264	.0000	-.1359	-.1777
341.210	-.0093	-.0219	-.0274	.0000	-.1268	-.1681
344.750		-.0125	-.0213	-.0806		



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2.

PAGE 729

(R83214)

ET ATTACH PTS.

ARC97-716 1A14 CR+712+512825

ALPHA (2) = -4.290 BETAT (5) = 0.140

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

Z/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.8070	.8120	.8180	.8230	.8280	.8340	.8390	.8460
182.040				.3401	.3432	.3393	.3311								
186.380				.3385	.3414	.3487	.3530								
189.820			.3099	.3293	.3300	.3328	.3718								
193.480		.2514	.2694	.3075	.3161	.3463	.3771								
197.000	.2132	.2337	.0000	.0000	.0000	.0000	.3369								
200.940		.2219	.0000	.0000	.0000	.0000	.3166								
204.080			.1874	.2882	.2602	.3055	.3164								
207.620				.6541	.2402	.2995	.3184								
222.840															
228.360															
229.820															
233.480															
237.000															
240.540															
244.080															
248.200															
337.870															

Z/LT	.8810	.8270	.9320	.9380	.9430	.9480
234.040				.1087	.0408	-.0307
237.580			.2321	.1400	.0588	-.0201
241.120		.2771	.2558	.1689	.0796	-.0080
244.660	.3223	.3139	.2768		.0900	-.0080
248.200	.3831	.3502	.3289		.1541	-.0193
251.740	.3988	.4124	.4237			
255.280		.6753	.5109	.4047	.0787	
323.510				-.0866	-.1231	-.1656
327.050			-.0250	-.0972	-.1593	-.1789
330.590			-.0320	-.0349	-.1309	-.1722
334.130	-.0484	-.0313	-.0463	.0000	-.1340	-.1681
337.670	-.0853	-.0609	-.0543		-.1448	-.1763
341.210	-.0540	-.0656	-.0701	.0000		
344.750		-.0699	-.0727	-.1176		

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(083214)

ET ATTACH PTS.

ARC97-716 1A14 01-T12-S12N25

ALPHA(1) = -.310 BETAT(1) = -7.920

SECTION 111 ET ATTACH POINTS DEPENDENT VARIABLE CP

H/LT	.2210	.3970	.4020	.4080	.4130	.4190	.4240	.4300	.4340	.4390	.4440
PHI											
182.640				.4180	.4548	.4610	.4453				
186.360				.3539	.3810	.4007	.3971				
189.920			.3283	.3488	.3612	.3703	.3732				
193.480		.3067	.3406	.3643	.3720	.3896	.4159				
197.000	.2857	.3236	.0000	.0000	.0000	.0000	.4769				
200.940		.3263	-.1324	.0000	.0000	.0000	.4768				
204.080			.2573	.2344	.1828	.2247	.2660				
207.820				.2324	.1939	.1953	.2306				
222.840											
226.360											
229.920											
233.480											
237.000											
240.940											
244.080											
248.200											
251.740											
255.800											
259.310											
262.830											
266.350											
269.870											
273.390											
276.910											
280.430											
283.950											
287.470											
290.990											
294.510											
298.030											
301.550											
305.070											
308.590											
312.110											
315.630											
319.150											
322.670											
326.190											
329.710											
333.230											
336.750											
340.270											
343.790											

H/LT	.8210	.8270	.8320	.8380	.8430	.8480
PHI						
234.040				-.0826	-.1094	-.1583
237.560			.0247	-.0357	-.0944	-.1535
241.120		.0823	.0582	-.0059	-.0791	-.1430
244.680	.0955	.0877	.0753		-.0726	-.1481
248.200	.1145	.1056	.0872		-.0570	-.1607
251.740	.1353	.1100	.0821			
255.800		.1032	.0526	-.0197	-.1007	
259.310				-.0692	-.1196	-.1585
262.830				-.0150	-.0762	-.1547
266.350		-.0101	-.0184	-.0721	-.1147	-.1535
269.870	-.0054	-.0140	-.0244	.0000	-.1215	-.1800
273.390	-.0117	-.0176	-.0229		-.1317	-.1697
276.910	-.0096	-.0222	-.0301	.0000		
280.430		-.0303	-.0353	-.0622		

-1128
-.0153

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - V2. 2

PAGE 787

ET ATTACH PTS.

(083214)

ALPHA(1,3) = -.300 BETA(1,2) = -3.890

ARC97-716 1A14 01-712-512N25

SECTION (1) ET ATTACH POINTS DEFENDANT VARIABLE CP

Z/LT	.3910	.3970	.4020	.4080	.4130	.4190	.4240	.6070	.6120	.6180	.6230	.6280	.6340	.6390	.6450
P41															
182.840				.2886	.3031	.3119	.3162								
186.300				.2828	.3017	.3076	.3066								
189.820			.2702	.2881	.2963	.3036	.3114								
193.400		.2475	.2756	.2931	.2912	.3036	.3261								
197.000	.2281	.2437	.0000	.0000	.0000	.0000	.3490								
200.940		.2441	-.1375	.0000	.0000	.0000	.3579								
204.080				.2721	.2615	.2875	.3167								
207.660				.3206	.2665	.3003	.3320								
212.840															
216.300															
220.920															
225.400															
230.000															
234.940															
240.080															
245.200															
250.670															
P42															
234.040				-.0322	-.0761	-.1288									
237.900			.0556	-.0049	-.0821	-.1225									
241.180		.0998	.0735	.0186	-.0419	-.1084									
244.860	.1199	.1043	.0789		-.0287	-.1091									
248.200	.1303	.1171	.1154		.0137	-.1150									
251.740	.1482	.1389	.1474												
255.200		.1527	.1319	.1756	-.0311										
259.910				-.0294	-.0861	-.1363									
267.030			.0193	-.0444	-.0965	-.1419									
270.900		.0082	.0099	-.0517	-.1045	-.1486									
274.130	.0107	.0030	-.0003	-.0070	-.1118	-.1535									
277.670	.0059	-.0021	-.0006		-.1169	-.1603									
281.810	.0108	.0005	-.0089	.0000											
286.790		-.0012	-.0069	-.0096											

Z/LT .6610 .6270 .6320 .6380 .6430 .6480

P41

234.040
237.900
241.180
244.860
248.200
251.740
255.200
259.910
267.030
270.900
274.130
277.670
281.810
286.790

P42

234.040
237.900
241.180
244.860
248.200
251.740
255.200
259.910
267.030
270.900
274.130
277.670
281.810
286.790

(M83214)

ET ATTACH PTS.

ARCS 7-716 1A14 CM+112+312M25.

ALPHA (S) = -.290 BETA (S) = 0.190

SECTION (1) ET ATTACH POINTS DEPENDENT VARIABLE CP

X/L	3010	3970	4020	4080	4130	4190	4240	4070	4120	4180	4230	4280	4340	4390	4450
Phi															
102.040				.2877	.2967	.2760	.2712								
108.360				.2863	.2809	.2828	.2789								
109.920			.2826	.2896	.2522	.2648	.2794								
103.480		.8043	.2418	.2391	.2284	.2515	.2799								
107.000	.1933	.1802	.0000	.0000	.0000	.0000	.2571								
270.340		.1830	-.1561	.0000	.0000	.0000	.2244								
274.090			.1965		.1671	.1943	.2102	.2092							
207.820				.6536	.1274	.2116	.2237								
222.040															
226.360															
229.920															
233.480															
237.000															
240.340															
244.090															
248.200															
252.740															
255.880															
323.310															
327.030															
330.360															
334.130															
337.870															
341.210															
344.730															

X/L	40210	40270	40320	40380	40430	40480
Phi						
234.040				.1495	.0719	-.0093
237.360			.2785	.1787	.0870	.0014
241.120		.3292	.3080	.2126	.1121	.0142
244.680	.3498	.3856	.3342		.1233	.0079
248.200	.4079	.4142	.3944		.1739	-.0114
251.740	.4582	.4777	.4825			
255.880		.5303	.5673	.4199	.0775	
323.310				-.0106	-.0646	-.1177
327.030			.0555	-.0278	-.0981	-.1349
330.360		.0398	.0388	-.01370	-.0967	-.1467
334.130	-.0009	.0184	.0176	.0000	-.1034	-.1547
337.870	-.0240	-.0008	.0042		-.1136	-.1605
341.210	-.0141	-.0182	-.0130	.0000		
344.730		-.0234	-.0286	-.0765		

.4008
-.0286

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 731

ARC97-716 1A14 Q1-712-512N5-AT11 ET BASE RAKE

RB3312) (18 JAN 74)

REFERENCE DATA

SERP = 2.4210 50.FT. XMRP = 29.5800 INCHES
 LREF = 36.7050 INCHES YMRP = .0000 INCHES
 ORL = 36.7050 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT(1) = -0.400 BETAT (1) = -0.100

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
 787.0000 .0000
 788.0000 .0000
 789.0000 1.4890
 790.0000 1.5870

ALPHAT(1) = -0.360 BETAT (2) = -4.110

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
 787.0000 .0000
 788.0000 .0000
 789.0000 1.2130
 790.0000 1.3960

ALPHAT(1) = -0.360 BETAT (3) = -.080

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
 787.0000 .0000
 788.0000 .0000
 789.0000 .0903
 790.0000 .9110

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
 RUDDER = .000 SPDBRK = .000

ARC97-716 1A14 Q1+712+312N25+AT11 ET BASE RAKE

(R83312)

ALPHAT(1) = -8.380 BETAT(4) = 3.990

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 .7214

790.000 .6637

ALPHAT(1) = -8.410 BETAT(5) = 8.040

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 .6936

790.000 .9154

ALPHAT(2) = -4.300 BETAT(1) = -8.070

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 1.3770

790.000 1.6340

ALPHAT(2) = -4.280 BETAT(2) = -4.020

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 1.1430

790.000 1.1670



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 753

ARC97-716 1A14 01+T12+SIGN25+AT11 ET BASE RAKE

(R83312)

ALPHA1 (2) = -4.290 BETAT (3) = -.030

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 .7202

790.000 .9276

ALPHA1 (2) = -4.290 BETAT (4) = 3.920

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 .6644

790.000 .8475

ALPHA1 (2) = -4.290 BETAT (5) = 7.990

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 .7315

790.000 .9211

ALPHA1 (3) = -.310 BETAT (1) = -8.050

SECTION (1) ET BASE RAKE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO

787.000 .0000

788.000 .0000

789.000 1.3750

790.000 1.5400

ARC57-716 1A14 Q1+T12+S12NG+AT11 ET BASE RATE (R33312)

ALPHAT (3) = -.310 BETAT (2) = -4.080

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 1.0220
790.0000 .9756

ALPHAT (3) = -.300 BETAT (3) = -.100

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 .7852
790.0000 .8938

ALPHAT (3) = -.300 BETAT (4) = 3.970

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 .6591
790.0000 .8547

ALPHAT (3) = -.310 BETAT (5) = 8.080

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 .8049
790.0000 .9828



DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A14B - VOL. 2

PAGE 735

ET BASE RATE

ARC97-716 1A14 Q1+T12+312N25

(RB3314) (18 JAN 74)

REFERENCE DATA

SREP = 2.4210 50.FT. XMRP = 29.5000 INCHES
LREP = 30.7050 INCHES YMRP = .0000 INCHES
BRP = 30.7050 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT (1) = -8.400 BETAT (1) = -7.950

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 1.3230
790.000 1.3550

ALPHAT (1) = -8.360 BETAT (2) = -3.900

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 1.2210
790.000 1.2500

ALPHAT (1) = -8.390 BETAT (3) = .150

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .9874
790.000 1.1840

PARAMETRIC DATA

MACH = 2.200 ELEVON = .000
RUDDER = .000 SPOBRK = .000

DATE 27 JAN 75 TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R83314)

ET BASE RATE

ARC97-716 1A14 Q1-T12-S12N25

ALPHAT(1) = -8.400 BETAT(4) = 4.130

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 .7299
790.0000 .9999

ALPHAT(1) = -8.420 BETAT(5) = 8.280

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 .8091
790.0000 .7797

ALPHAT(2) = -4.300 BETAT(1) = -7.900

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 1.2770
790.0000 1.3480

ALPHAT(2) = -4.890 BETAT(2) = -3.880

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.0000 .0000
788.0000 .0000
789.0000 1.0970
790.0000 1.1580



DATE 27 JAN 79

TABULATED PRESSURE DATA - 1A148 - VOL. 2

PAGE 737

ARC97-716 1A14 CL+712+312M5

ET BASE RATE

(N83314)

ALPHA(2) = -4.290 BETAT (3) = .060

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .9140
790.000 1.0730

ALPHA(2) = -4.290 BETAT (4) = 4.030

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .8747
790.000 .6362

ALPHA(2) = -4.290 BETAT (5) = 8.140

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .7707
790.000 .7187

ALPHA(3) = -.310 BETAT (1) = -7.920

SECTION (1) ET BASE RATE DEPENDENT VARIABLE CP

PHI 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 1.3230
790.000 1.2940

DATE 27 JAN 75

TABULATED PRESSURE DATA - 1A148 - VOL. 2

(R03334)

ET BASE NAME

ARC97-716 1A14 C1+T12+012N25

ALPHAT(3) = -.300 BETAT (2) = -3.090

SECTION (1) ET BASE NAME DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 1.0340
790.000 1.0990

ALPHAT(3) = -.300 BETAT (3) = .070

SECTION (1) ET BASE NAME DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .8562
790.000 .9033

ALPHAT(3) = -.300 BETAT (4) = 4.140

SECTION (1) ET BASE NAME DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .8293
790.000 .9287

ALPHAT(3) = -.290 BETAT (5) = 8.190

SECTION (1) ET BASE NAME DEPENDENT VARIABLE CP

PH1 180.0000

TAP NO
787.000 .0000
788.000 .0000
789.000 .7773
790.000 .8642

